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The
CHEMIST AND DRUGGIST

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JUNE 8 1963

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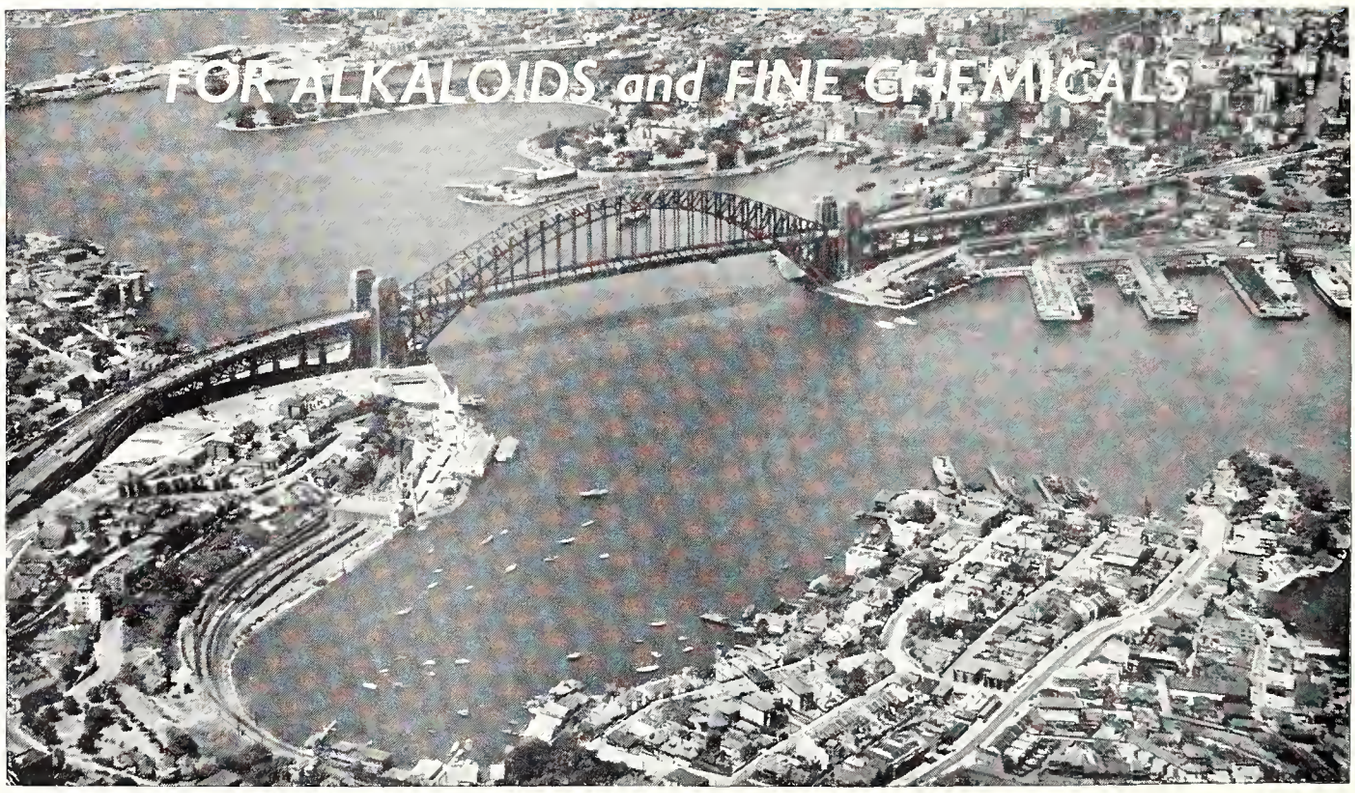
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 179 June 8, 1963 No. 4347

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PUBLISHED BY
MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2
Telephone: Central 6565
Telegrams: Chemicus, Estrand, London

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

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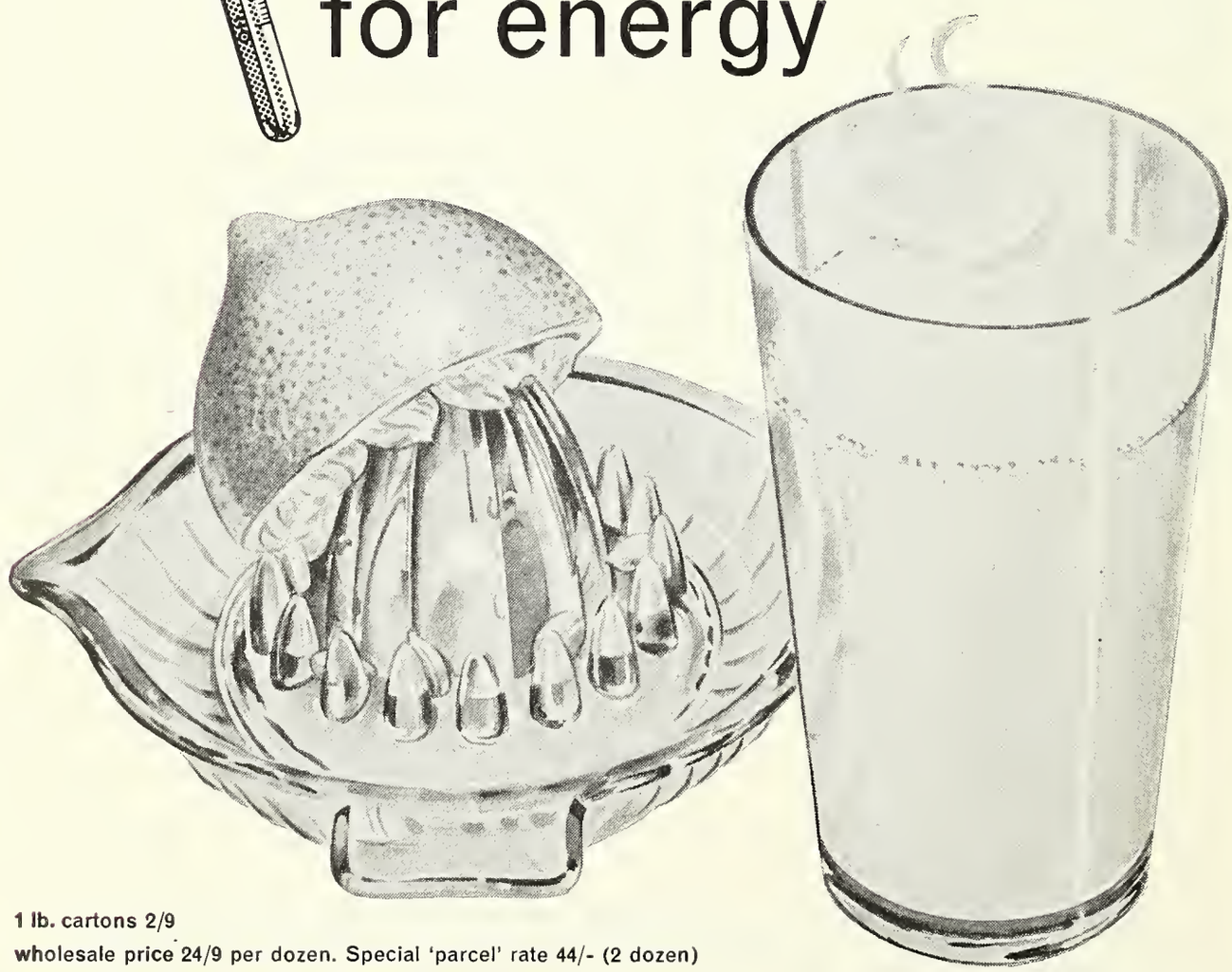
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The CHEMIST AND DRUGGIST

Volume 179 JUNE 8, 1963 No. 4347

Safety Testing of Drugs

TERMS OF REFERENCE ANNOUNCED

MR. T. C. Denston (Secretary, British Pharmacopœia Commission) and Dr. F. Hartley (Dean, School of Pharmacy, London University) are the only pharmacists appointed to the Committee on Safety of Drugs.

The names of the chairman (Sir Derrick Dunlop) and the three subcommittee chairmen (Professors Frazer, Hunter and Witts) were previously announced (*C. & D.*, May 11, p. 511). The remaining members whose appointments were announced on June 4 are: Professors E. F. Scowen, London University; G. M. Wilson, Sheffield; O. L. Wade, Belfast; and W. W. Mushin, Cardiff; and Drs. R. A. J. Asher, London, and E. V. Kuenssberg, Edinburgh.

The terms of reference announced by the Scottish Home and Health Department, Ministry of Health and Ministry of Housing and Local Government are:—

1. To invite from the manufacturer or other person developing or proposing to market a drug in the United Kingdom any reports they may think fit on the toxicity tests carried out on it; to consider whether any further tests should be made, and whether the drug should be submitted to clinical trial; and to convey their advice to those who submitted reports.
2. To obtain reports of clinical trials of drugs submitted thereto.
3. Taking into account the safety and efficacy of each drug and the purposes for which it is to be used, to consider whether it may be released for marketing, with or without precautions or restrictions on its use; and to convey their advice to those who submitted reports.
4. To give to manufacturers and others concerned any general advice they may think fit on the matters referred to in paragraphs 1–3.
5. To assemble and assess reports about adverse effects of drugs in use and prepare information thereon which may be brought to the notice of doctors and others concerned.
6. To advise the appointing Ministers on any of the above matters.

The Committee is also asked "to specify, with due regard to the time they need for preparatory work, the date from which they will call for reports on toxicity tests and clinical trials." The three subcommittees mentioned above will deal with: (i) toxicity; (ii) clinical trials and therapeutic efficacy, and (iii) adverse reactions.

B.P. Conference

LAST DATE FOR APPLICATIONS

BECAUSE of the unexpectedly large number of applications for the British Pharmaceutical Conference in September, the London committee announce that the list is to be closed on June 15. Applications received by that date will be dealt with as announced on the application forms. If the problem of accommodation for the major sessions and functions can be solved, however, a limited number of additional tickets will be made available, but the economic price of £16 16s. a place and £4 4s. for the banquet will be charged. The prices so far charged have been subsidised by the London branches of the Pharmaceutical Society and contributions from members of the pharmaceutical industry, and it is felt that further contributions for that purpose cannot be sought.

Statutory Committee

THREE CASES TO CONSIDER

THE Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m. on June 18, to:—1. Resume an inquiry adjourned from May 3, 1962, concerning the conviction of a member of the Society for an offence under the Sexual Offences Act, 1956. 2. Resume an inquiry adjourned from May 3, 1962, concerning the conviction of a member of the Society for offences under the Pharmacy and Poisons Act, 1933. 3. Consider information and evidence from which it appears that a member of the Society has been convicted of offences under the Pharmacy and Poisons Act, 1933.

Dangerous Drugs Act

AUTHORITIES WITHDRAWN

THE Home Secretary has withdrawn from Dr. Norman Frederick Cockett whose registered address is c/o Methodist Missionary Society, Marylebone Road, London, N.W.1, the authorities to possess, supply or prescribe Dangerous Drugs.

Pharmaceutical Sciences

MÜNSTER CONGRESS PAPERS

THE organising committee of the Twenty-third International Congress of Pharmaceutical Sciences, which is being held at Münster, Westphalia, September 9-14, announce that the following papers are to be presented:—*Opening Session*, Gerhard Domagk on "Methods, Responsibility and Limits in Drug Research." *Symposium on Pharmaceutical Aspects in Drug Absorption*, J. Staubesand (Freiburg), "The morphology of the entering and transcellular passage of compounds through membrane vesiculation"; E. Schoffeniels (Liège), "Drug absorption and passive permeability of cell membranes"; W. Rummel (Hamburg), "Drug absorption and active transport"; H. Druckrey (Freiburg), "Dependence of drug absorption upon application site, kind and dose and their relation to action"; H. Kurzm (Munich), "Enhancement or creation of new effects by biochemical reactions of the drug during the passage to the site of action"; L. Dettli (Basle), "Influence on the absorption by foreign substances and those formed within the cell"; H. Arnold (Bielefeld), "Transport forms of a drug through chemical change"; A. H. Beckett (Lon-



A STYLISH FRONT AT EDINBURGH: Mr. John Horsburgh, M.P.S., recently has transferred his business from St. Mary's Street, Edinburgh, to modernised premises at 274 Canongate. The stylish shopfront, in mahogany and natural marble bricks, blends with the character of the Royal Mile in which it is situated, and sets off the open layout plan of the shop. The interior has been fitted with Scandinavian-type interchangeable display fittings. A link with the past is preserved by an illuminated sign—a modern presentation of the chemist's pestle and mortar—outside the shop. The same emblem is used on bottle labels.

don), "Physical-chemical and steric properties of drugs and their absorption"; H. Haas (Ludwigshaven), "Constitution, absorption and pharmacological action"; and P. Finholt (Oslo), "Influence on the absorption by the form of the drug."

Aerosol Congress

INTERNATIONAL MEETING AT BRIGHTON

THE fourth international aerosol congress and exhibition of the Federation of European Aerosol Associations, to be held at Brighton, Sussex, October 7-12, will be the first to take place in Britain, and the largest to date. Some fifty-five British and foreign companies will be exhibiting and visitors are expected from all over the world. Among the scheduled lectures are addresses on "Perfumery in Aerosols," "The Place of Cosmetics in the European Aerosol Industry," "The Development of Insecticidal Aerosols" and "A Statistical Analysis of the European Aerosol Market." Judging of entries for the 1936 Aerosol Packaging Competition will take place prior to the Congress (on September 17-18). Awards will be divided into ten groups and prize-winners and other entries are to be displayed at the Pavilion Theatre, Brighton during the Congress. Professor Hans Bohn (former head, department for advertising art, Werkkunstschule, Offenbach/Main); M. J. P. Lauth (editor, *Emballage*), and Mr. F. H. K. Henrion (Royal designer for industry) have agreed to act as judges. Entries for the competition must be submitted by July 31, and application forms and additional information about the competition and Congress are available from the organising committee at Milbanke Way, Bracknell, Berks.

"Pollen Counts"

SERVICE FOR HAY FEVER VICTIMS

FOR the first time in Britain, a daily "pollen count" news service is being made available to hay fever sufferers in London and the home counties. The service was started on June 1 and is to continue until the middle of July. The scientific work is being carried out by the Wright-Fleming Institute in London, where daily counts will be made, on special apparatus, of the pollen from trees, flowers and grasses present in the atmosphere. During the hay fever season details will be issued to newspapers and other news services daily, of the amount of pollen present in London air in the form of a "pollen count" bulletin from which hay fever sufferers may be able to judge how serious an attack might be during the day. The "pollen count" is defined as the number of pollen grains per cubic metre of air averaged over a twenty-four hour period. When the count is high (e.g., fifty or more) most hay fever sufferers will probably experience severe symptoms, and may be able to re-arrange their day so that they can remain indoors or avoid visits to country areas. Alternatively, patients receiving treatment, such as antihistamines, may be advised to take larger doses. The service is stated to be similar to that which has been operated in America for several years in newspapers and from radio stations. The British service is being arranged by the Asthma Research Council, 28 Norfolk Place, London, W.2. The Council, which comprises both laymen and doctors, has as its objective the assistance of research projects into the causes and cures of asthma and the alleviation of sufferings produced by it, and arranges and finances research.

Oral Contraceptives

CHEMIST'S OBJECTION TO DISPENSING

"A CHEMIST has no responsibility for the purpose for which a doctor prescribes a drug." That was stated by the Ministry of Health in a letter to a county borough Executive Council in the London area recently. A chemist contractor had objected, on conscientious grounds, to dispensing oral contraceptives prescribed on form EC10, but the Ministry consider that a particular preparation may be prescribed for a specific disorder, despite the manufacturer describing it as an oral contraceptive, because it is known to be identical with a product recommended for gynæcological use. "It would be open to a chemist to let the local doctors know that he objected . . . which would enable them to advise the patient where [the prescription] would be likely to be dispensed." If a patient still presented a prescription for such a preparation, the chemist could say he did not stock it and suggest that the prescription be taken to another chemist, says the Ministry. The case is reported in the June issue of *The Executive Council*.

Oral Polio Vaccine

ADDITIONAL DOSES RECOMMENDED

CHANGES in the programmes for immunisation against poliomyelitis have been advised by the Joint Committee on Vaccination and Immunisation, and are being introduced by the Ministry of Health. Children who have had two doses of Salk vaccine, it is recommended, should receive, as an alternative to a third dose, two doses of oral vaccine at an interval of not less than four weeks. All immunised children entering school should be offered a reinforcing dose of vaccine and this should also be offered to immunised persons at special risk of contracting poliomyelitis, regardless of age. The Committee has also advised that the occurrence of a single case of paralytic poliomyelitis would justify the emergency administration of a single dose of oral vaccine to all children in the neighbourhood of the case. The Minister of Health (Mr. E. Powell) has stated that the total of 271 cases of poliomyelitis in England and Wales in 1962 was the lowest for nearly fifty years, reflecting credit on those concerned in the vaccination campaign. So far in 1963, there have been only about twenty cases reported.

Fifteenth-century Surgery

SALE OF THREE MANUSCRIPTS

THREE mid-fifteenth-century works on surgery in Italian and Latin, bound in one volume, are being sold by Sotheby's & Co., London, at a sale of western and oriental manuscripts and miniatures on June 10. The lot (no. 133) consists of "Chirurgia," believed to be an hitherto unpublished work by Gulielmus de Saliceto; "Modus Curandi Epidemiam," by Ugo Spaneus, Caroli Magni Regis . . . medicus; and "Chirurgia Parva," by Bruno di Langoburgo. The volume was in the possession of Magister Franciscus de Grasselis (or de Grassi) of Gualdo in Umbria, and on three fly leaves at the end includes many notes about de Grassi and his family together with recipes and a bloodletting calendar. The notes are dated between 1457 and 1466. The author was a surgeon who had studied in Perugia.

"High-Street" Trading

PLANNING OF NEW SHOPS REQUIRED

HIGH rates and high rents at present being levied could be the sounding of the death knell for "High Street" trading according to Mr. T. B. Follows, M.P.S., Sittingbourne, Kent. Mr. Follows, who had been installed president of that town's chamber of trade, was speaking at the annual meeting. Calling for increased co-operation and better feeling among the various organisations in the town, he said the problem of too many shops for too few people would have to be tackled. Shops were going up all over the place unnecessarily—"this could mean the setting up of a new shopping centre and the old one dying a natural death." With better liaison between those putting up shops, the local council and chamber of trade, that could be avoided.

Prescription Charges

PAYMENT BY STAMPS ENDS IN SCOTLAND

THE arrangement whereby dispensing doctors and certain rural chemist contractors in Scotland are allowed to collect prescription charges from patients by means of postage stamps is being terminated on June 30. After that date, chemist contractors involved should collect all charges from patients in cash only and retain the amounts collected. An adjustment for such amounts will be made by the Drug Accounts Committee when authorising chemists' payments. If, exceptionally, during the months immediately following June 30, a dispensing doctor or chemist feels obliged to accept stamps they may be surrendered in the usual way as a transitional arrangement, but the patient advised that the practice must be discontinued.

Chemical Workers

PAY AND HOLIDAY AWARDS AGREED

A PAY rise of 3d. an hour has been agreed for craftsmen and semi-skilled engineers in the heavy chemical industry. They will also receive an extra day's holiday each year until 1967-68 bringing the total by then to three weeks. An offer to general workers of 2½d. an hour has been rejected. Imperial Chemical Industries, Ltd., have given similar increases to its craftsmen but 2½d. to general workers.

NEWS IN BRIEF

TRIBUTES to the work done for pharmacy by Miss M. A. Burr (president of the Pharmaceutical Society) were paid at a dinner given in her honour by the National Association of Women Pharmacists in London on May 23.

THAT the World Health Organisation should become a central "clearing house" for information on adverse reactions to new drugs, particularly new ones, has been decided by a resolution unanimously adopted at the World Health Assembly in Geneva.

RAUWOLFIA alkaloids as tranquillising and antihypertensive agents, the uses of respiratory stimulants, and the potential harmful effects of halothane on the liver, are referred to in the May 31 issue of the *Drug and Therapeutics Bulletin*.

A NEW general import duties order imposing duties on (among other items) chicory, glucose, saccharin, sugar, invert sugar and on certain goods containing those commodities, on June 5, replaced the existing revenue duties. As a consequence of the general order, a new Drawbacks Order provides for allowance of drawback of import duty, on sugar and liquid glucose when used in the manufacture of a range of specified goods for export.

SPORT

Bowls.—ULSTER CHEMISTS' BOWLING ASSOCIATION. The fourteenth annual bowling tournament was played at Belmont bowling green on May 29. The prizes were presented by Mrs. A. E. Atkinson, wife of the captain, and the proceeds are being handed to the Northern Ireland Chemists' Benevolent Fund. *Results: Jack Caldwell rose bowl*, R. Rosbotham. *Ulster Chemists' cup*, L. Jacobs. *Chemists' section*, W. A. Lilley, C. S. Ritchie, J. C. Wellwood, J. A. Cochrane and W. H. Boyd (consolation). *Representatives' section*, J. Kirkpatrick, T. Cavan, C. J. Hall, S. T. McIlroy and N. Robinson (consolation).

Golf.—LIVERPOOL CHEMISTS' GOLFING SOCIETY. A meeting was held at Ormskirk golf club on May 15. *Results*: *Allenburys' cup and prize*, J. Charnock, 86 (16), 70. *Johnson & Johnson's prize*, H. W. Cottle, 100 (22), 78. *Liverpool Chemists' Golfing Society prize*, B. Gould, 88 (8) 80.

LONDON CHEMISTS' GOLFING SOCIETY. Forty-seven members and guests attended a visitors' day at South Herts golf club on May 29. *Results: Captain's prize* (medal), J. W. Buchanan (10), 72. *Aspro rose bowl and prize* (Stableford), C. H. Ryder (14), 34 points. *Squibb centennial trophy and prize* (Stableford), J. G. Evans (18), 33 points. *Other leading scorers:* D. A. Savory (14), 32 points; R. C. Hall (10), 31 points; E. S. Jobbing (8), 31 points. *Visitors' prizes*, M. Hemmings (9), 37 points; P. Rann (9), 33 points.

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY. Sixty members attended a meeting at Langley Park on May 22 when a Stableford competition was played for the Scotia Bowl. *Results:* 1, R. Hedhes (Langley Park), 37 points; 2, G. Stanton (Royal Blackheath), 36 points; 3, J. Hay (Maidstone), 34 points. *Best score on first nine holes*, F. Jamieson (Woodcote Park). *Best score on last nine holes*, S. M. Hutchinson (Royal Blackheath). *Bobby Locke prize* (18 and over handicap), J. Widocks (Croham Hurst), 27 points. *Visitors' prizes*, C. Manktelow (Croham Hurst), 38 points (best score on last nine holes); D. Hedges (Langley Park), 38 points.

LOCAL OFFICERS

PHARMACEUTICAL ASSOCIATIONS

Hendon and Edgware. — *President*, D. N. Sharpe; *Vice-president*, B. Nokes; *Hon. vice-president*, Dr. T. Wallis; *Treasurer*, W. Price; *Secretary*, L. Learner, 22 Hampstead Gardens, Golders Green, London, N.W.11.

TOPICAL REFLECTIONS

By Xrayser

The report

There did appear, as suggested in your editorial on p. 609, a drifting with the current at the Branch Representatives' meeting, and it was not surprising that the main stream seemed to change direction from time to time in the course of a long day. It is true, as the secretary and registrar (Mr. F. W. Adams) pointed out at the start of the day, that the Council of the Pharmaceutical Society had made the report of the Committee on the General Practice of Pharmacy its own by modification and acceptance. It was, therefore, for the meeting to accept or reject the report of the Council on the general practice of pharmacy, and that it was invited to do under four separate headings and with four separate votes. All that the platform was prepared to grant was an opportunity for further questions. The course appeared to be quite clear, but just before lunch the meeting appeared to get into uncharted waters on the subject of limitation. The procedure adopted and acted upon up to that time left no space for manœuvre. Consequently, the whole section had either to be accepted or rejected as it stood, and at that point Mr. J. P. Kerr took leave to doubt if people knew what they were voting for. The representatives, therefore, despite an interest in some form of limitation, found themselves unable to accept because they were unable to amend, and in that particular it was the Council's own interpretation of limitation, superimposed on the original report, which the members rejected. That meant throwing overboard the whole section devoted to that subject. At that point I am in sympathy with your opening comment that the implications of the decisions taken are unlikely to be evident for some time. Limitation, so far as I understand the situation, is in temporary cold storage, and it is possible that it can be brought back to life only by members asking the Council to give its attention to the matter as a separate subject and bring any recommendations back for discussion in a form which will permit discussion and amendment in detail, and not, as on this occasion, in the form of a package deal.

Future action

Mr. Adams informed the meeting that where the report dealt with principles and did not state how those principles were to be applied, the Council would be free to decide what it thought was the method of implementation and put that to a subsequent meeting, or make it known in such a way that the members could express their views. I was not quite clear whether that meant that such a meeting would be asked to accept or reject the Council's decision, or whether members would only be given the opportunity of expressing their views as a matter of form. I can only suppose that the former is the correct interpretation of the statement by Mr. Adams, although reference to the Council's freedom to decide the method of implementation could be read otherwise. It is just possible that the special meeting and its discussion will have faced the Council with problems which did not make themselves apparent in committee, and it may be that action will be a much slower process than had been thought. But the members want action and the new Council will not lack employment.

Professional reward

Mr. D. W. Hudson, one of the principal authors of the original report, was right in drawing attention to the changed conditions of dispensing under N.H.S. since his Committee had considered the question some time ago. He is correct in his assertion that the conditions which obtained when the subject was studied no longer exist, and his statement that it is necessary to look at the whole matter against the present-day background cannot be questioned, any more than can his suggestion that there should be a responsible committee keeping current conditions under constant review. Circumstances have changed radically and in such a way as to put a premium on professional pharmacy, thereby opening the door to an extension of extraneous activities foreign to the whole principle of the advancement of pure pharmacy which was the objective of the report Committee.

DOUBLE ANNIVERSARY

French History-of-pharmacy Society's celebration meeting

A THREE-DAY celebration meeting of the fiftieth anniversary of the French History-of-pharmacy Society and of the bicentenary of N. L. Vauquelin (see *C. & D.*, May 18, p. 551) was a considerable event. For its careful planning, excellently carried out, credit goes especially to MM. Bonnemain, Cabanis and Lemoine. At a morning reception to more than eighty pharmacists given by the Municipality of Paris at the Hotel de Ville on May 24, M. Taittinger (president) presented the City's *Medaille d'Argent* to Dr. Maurice Bouvet (president of the Society), M. E. H. Guitard (perpetual secretary) and Professor G. Valette (dean of the Faculty of Pharmacy). At an afternoon session Dr. Bouvet described the fifty years' work of the Society, particularly the publication of original work in its *Révue*. He welcomed members and visitors from overseas, including Dr. and Mrs. Poynter and Mr. L. G. Matthews (Great Britain), Drs. P. H. Braus and Wittop Koning (Holland), Dr. Seger (Belgium). M. E. H. Guitard (one of the three founders of the Society), followed with a talk on personalities associated with the Society; for him to be present at its fiftieth anniversary, he said, was a memorable and moving occasion.

Dean G. Valette and Professor Delépine reviewed the scientific achievements of Vauquelin—"a great chemist and a great compatriot." Chief officers of the Society received the *Officier de l'Ordre des Palmes Académique* decorations of the Ministry of National Education. An exhibition *Vauquelin et son Temps* drew many visitors. Original documents had been loaned by M. Jean Vauquelin, a descendant; pharmaceutical apparatus and wares of the eighteenth century were on view; drug pots and mortars from Rouen and many personal mementoes of Vauquelin.

At a banquet in the evening M. Valette was in the chair and replies for the guests were made by Drs. Braus and Poynter. The guests included Pharmacien Général Foujols (Army) and Pharmacien-Chemiste Général Qûeré (Navy). Saturday, May 25, began with a session at which congratulations from many French and overseas Societies were received. New members were elected and gifts noted.

Of the three papers presented, that by Dr. Peleman was the most unusual in its presentation of the botany of Dodoens, illustrated by coloured slides of numerous herbs he described, accompanied by music of the sixteenth century, with a commentary, partly French, partly in the Flemish of his own period. A well arranged and wide-sweeping exhibition of stamps, both medical and pharmaceutical, was opened; among which a collection of stamps depicting drugs was specially attractive. It was accompanied by drawings and arranged according to their therapeutic application. Mme. G. Valette commented upon the richness and variety of the Faculty's historical collections. A special Vauquelin stamp was on sale, with first-day covers and, to judge by the rush for the stamps, half the nation's philatelists must have turned up. A dozen post-office workers were busy selling and cancelling stamps all day.

The outing to Vauquelin's birthplace in Calvados, St. André d'Hébértot, though it demanded an early start (7.30 a.m.) attracted a large crowd, which filled a special "autorail" train. A mass was said in the village church by the *curé*, and an address was given by Mgr. Durand (rector of the Basilique de Lisieux).

At the Vauquelin column (first erected in 1850) at the village cross roads, about 300 pharmacists and local inhabitants were grouped. During the 1939-45 war occupation the bronze bust of Vauquelin and the iron railings had been melted down. New wrought-iron railings have been provided and a new bronze bust was unveiled in the name of the French Society. A visit to the magnificent chateau of St. André, opened for the occasion by its owner, Mme. Roblot, enabled visitors to see the room in which Vauquelin had been a guest during his last years.

ANTIBIOTICS IN MILK

Committee's findings and recommendations

THE widespread use of antibiotics in the treatment of mastitis in cows has given rise to problems in the dairy industry and may be creating a possible public health hazard. Concern about the proportion of milk samples taken at dairies and found to contain traces of antibiotics has been expressed by the Minister of Agriculture, Fisheries and Food and the Secretary of State for Scotland, following from the Report of the Milk Hygiene Subcommittee of the Milk and Milk Products Technical Advisory Committee on Antibiotics in Milk in Great Britain (H. M. Stationery Office, price 1s. 3d.). In their recommendations the committee state that the manufacturers of pharmaceutical preparations should be asked to provide formulations suitable for the treatment of the majority of cases of mastitis in cows and having an excretion time of less than forty-eight hours. The committee also suggests that manufacturers should label their preparations to show the minimum length of time that milk from treated animals should be withheld. Another recommendation is that veterinary surgeons should restrict to the minimum the amount of antibiotic preparations that are supplied to a farmer and that they should warn farmers that they must withhold milk from treated animals for an appropriate period. The use of dyes as markers in antibiotic preparations to indicate when it is safe to include the milk from a treated animal with normal supplies does not seem to be a practical proposition according to the committee, nevertheless, it recommends that a search for a suitable marker, not necessarily a dye, capable of quick and easy detection should be continued. The British Veterinary Association and the Association of British Pharmaceutical Industries have been asked to co-operate with the Government in implementing the recommendations. The committee point out that the law prohibits the sale of antibiotics for the treatment of animals except by veterinary surgeons, and the usual practice is for veterinary surgeons to provide enough antibiotics to enable farmers to continue treatment of the cases in hand. It had been suggested that only veterinary surgeons should administer antibiotics to cows but in the committee's view that was impracticable, "treatment may be necessary on successive days and it would be unrealistic, as well as costly to the farmer, to expect the veterinary surgeon to return each day to give such treatment. Insistence on this might result in farmers using quack remedies to their cost. The injection of the contents of a tube of antibiotic into the udder through the teat is a relatively simple operation capable of being carried out by any competent farmer or cowman. Further, immediate treatment is essential to prevent a serious outbreak, and veterinary surgeons cannot be expected to be always available to meet such urgent cases. The farmer can give "first aid" treatment and the veterinary surgeon confirm the diagnosis and treatment when he visits the farm later." The survey which was begun in 1961 and continued for twelve months was carried out in England, Wales and Scotland and confirmed that penicillin was the most common antibiotic found in milk in England and Wales, over 41,700 samples were examined during the year and of those, 11 per cent., representing 14 per cent. of the total milk sampled contained antibiotics. In Scotland, of 2,700 samples, 9·9 per cent., representing 11·6 per cent. of the milk sampled, was shown to contain antibiotics.

OVERSEAS NEWS

UNITED STATES

More Prescriptions in 1962

THAT the American doctor in 1962 "wrote more new prescriptions than in any year since the modern era of scientific drug therapy began" is the finding from a prescription study carried out by *American Druggist*. The average doctor issued 2,115 new prescriptions, 6·3 per cent. more than in 1961, and retail pharmacies dispensed 6·8 per cent. more. Combined with a 9·1 per cent. increase in "repeat" prescriptions, that represented a 7·9 per cent. rise for all prescriptions, bringing the total dispensed to a record 702,016,000. Total value rose by 7·7 per cent. but the average price per prescription fell from $3.22 to $3.21, a fall explained by the fewer new products (often costing more immediately after introduction) launched and the wave of "discount" competition. The "aggressive" pricing policies of the drug chains were reflected by their 19·6 per cent. rise in prescription numbers against 7 per cent. for independents. The increasing trend to "repeat" prescriptions is ascribed to the growing importance of maintenance drugs.

EIRE TO HAVE COSMETICS ASSOCIATION

Link between retailer and manufacturer

TO set up an organisation to look after the interests of the cosmetic and ancillary trades was unanimously decided at a meeting of pharmacists held in Dublin on May 14. Called by the Dublin Pharmacists' Association, the meeting had drawn a large attendance from all parts of the Republic.

MR. M. BROPHY, who presided, recalled that, about a year earlier, it had been proposed to the Association that something should be done about cosmetics. A committee to explore the possibilities had been formed, and sufficient encouragement had been received to go ahead with the idea. There was no desire to establish a splinter group of pharmacy. The organisers were anxious that any new organisation should be closely affiliated to the I.D.A. The blessings of all branches of pharmacy would be sought.

The extent and complexity of present stocks made such an organisation necessary. One result would be to bring much-needed understanding between the manufacturer and retailer: at present it was virtually non-existent. Mr. Brophy outlined the aims of the proposed organisation as being (1) to act as a national negotiating body between chemist and manufacturer, maintaining close link with existing local associations; (2) to try and make the cosmetic business rational and economic; (3) to make a detailed study of the market and enlist the advice of experts in making the business economic; (4) to provide an advisory service to chemists on the cosmetic market after studying the intake of new lines, and to establish a policy to try to reserve distribution to chemists. The chemists, he said, had made the cosmetic industry, and the new body would aim to wipe out existing unfair practices under which chemists were compelled by various means to keep excess quantities of obsolete stocks and accept shades subsequently rejected by the public. Distributors were now selling not to the public but to the retailer, who was left to do all the worrying about disposal. Attention would be given to replacement of damaged goods.

The increasing volume of goods on the market had reached fantastic proportions and manufacturers needed to consult the retailers, who were in touch with public taste.

Up to Chemists to Organise

MR. T. R. MILLER congratulated Mr. Brophy and his colleagues on their initiative. They deserved every success in their undertaking, though whether they would succeed in stabilising distribution outside pharmaceutical circles he did not know, since the turnover in the stores and supermarkets was fantastically greater than that of the individual chemist. At present stores could return soiled stocks but chemists could not, and it was up to them to organise. THE CHAIRMAN said it should be remembered that the overall distribution of the 1,300 chemists was greater than that of the stores.

MR. R. C. O'HIGGINS observed that chemists still had the whip hand, but whether they kept it would depend on the formation of an association. They should visualise having their own magazine. THE CHAIRMAN stressed that the proposed association would not be confined to the Dublin area.

Some speakers held that, before the organisation could function properly, something would have to be done about the present discrimination shown by manufacturers in confining their lines to certain chemists; others felt that, having built up the trade for those lines, agents should be entitled to reap the profits. THE CHAIRMAN said that, apart from that aspect, the association had a lot to offer. To get better understanding it was proposed to appoint both non-agents and agents on the committee. The problem was one over which they had little control. It was up to chemists to get agencies.

It was unanimously agreed to form the association, and a membership fee of £1 was agreed. The existing "steering" committee was elected for the time being and it was decided to call a further general meeting when a constitution had been drawn up. Members of the temporary committee are Mr. M. Brophy (chairman), Mesdames M. Manning and M. Kelly, and Messrs. E. O'Sullivan, P. O'Brien, L. Manly, T. F. Redmond, D. Bourke, D. Murphy and R. C. O'Higgins.

IRISH DRUG ASSOCIATION

Protest against proposed turnover tax

THE Irish Drug Association, at a meeting of local association delegates held in Dublin on May 5, unanimously decided to protest against the turnover tax of sixpence in the £ proposed in the Irish Government's 1963 Budget. MR. F. HARTY, Tralee, said that 25,000 shopkeepers would be involved. All Kerry traders were against the proposal. "We should not be asked to act as tax-gatherers. If we are to do the work of civil servants we should be paid for it."

"Complete and Absolute" Objection

The president (MR. A. THORNTON) said the Association's first step had been to object to any tax of the nature proposed. "I do not think even the Government could have anticipated such complete and absolute objection to this tax. So far I have not seen the least expression of approval from anybody." He doubted if it would ever be put into effect in its present form because of the difficulty of applying it to small-priced goods. The tax would increase the cost of living.

MR. M. BROPHY said Dublin hoped the I.D.A. would appoint a subcommittee to study the implications.

The secretary (MR. B. R. SMITH) said that the Federation of Trades Associations, to which the I.D.A. was affiliated, had already protested, and the Taoiseach had agreed to meet a delegation from the Federation. MR. R. PHELAN, Waterford, asked if the Federation would consider enlisting the help of the Opposition. THE PRESIDENT said he was sure that no move in opposition to the tax would be overlooked.

MR. N. A. CROSSAN, Donegal, said they should lose no time in protesting or many pharmacists, he felt, would be forced out of business. MR. T. A. DOLAN, Moate, said the tax would amount to 14 per cent. of the pharmacist's net income. It would lead to sales competition because pharmacists might apply it to different articles. Was there any possibility that profit ratios would be raised to absorb the tax? MR. PHELAN, who asked whether if the tax were imposed, new price lists would be issued by the Association, was told that a general directive would be issued when they knew exactly how the tax was intended to be operated.

Speaking to a resolution from the Donegal Chemists' Association, "That the professional dispensing fee should be 2s. 6d., and that the best obtainable initial terms for a possible National Health extension should be held out for before agreement," MR. P. MCGEE, Donegal, said that his Association felt the public did not fully appreciate the efficient service chemists could provide. They should seek a 2s. 6d. minimum dispensing fee, basic prices, and a percentage profit. In the past two years twenty-four chemists had opted out of the Health Scheme in Northern Ireland because they found it was not a paying proposition.

THE SECRETARY gave details of a meeting between members of the Association and of the Ulster Chemists' Association on the working of the health scheme in Northern Ireland. The final terms would probably be submitted jointly. MR. CROSSAN said that the chemists who had opted out of the Northern Ireland scheme had closed down completely. He would not like to see the I.D.A. embarking on a scheme on terms that might have a similar outcome. THE PRESIDENT promised that before any scheme was accepted, members would be notified of its terms.

Advisory Service Demanded

MR. BROPHY, for Dublin Chemists' Association, moved "That the I.D.A. initiate a regular advisory service to members." He felt that pharmacy either lacked the power to grapple with its problems or those in charge were unwilling to come to grips. The I.D.A. primarily existed for the protection of chemists. Some members felt they were not getting it. "The Association should tackle the basic problems of pharmacy. An over-all plan for pharmacists was necessary. Often pharmacists, in their ignorance, favoured lines to their own detriment and there was a need for effective screening.

When THE PRESIDENT pointed out that they would have to have regard to the directive of the Fair Trade Commission in the matter, MR. HARTY said that surely they would not be offending by merely encouraging members to stock the goods of certain distributors? THE PRESIDENT said the Association would be happy to receive constructive suggestions.

No action was taken on the motion.

IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

WHEN replying to a question by Sir Richard Glyn, Mr. Christopher Soames (Minister of Agriculture, Fisheries and Food) in a written reply on May 29 referred to a Report by the Milk and Milk Products Technical Advisory Committee on antibiotics in milk in Great Britain and stated that antibiotics, which provided the most effective treatment for mastitis in dairy cows were normally passed into the milk for a period after treatment. The Ministers were concerned about the proportion of milk samples taken at dairies that had been found to contain traces of such antibiotics. The British Veterinary Association and the Association of the British Pharmaceutical Industry had been asked to co-operate with the Government in the matter (see page 626).

National Health Service Charges

Mr. W. Hamilton asked the Secretary of State for Scotland for details of the total paid in Health charges within the National Health Service. The following are details taken from the written reply on May 29 by Mr. M. A. C. Noble (Secretary of State for Scotland):—

NATIONAL HEALTH SERVICE—SCOTLAND

—	1953–54	1959–60	1960–61	1961–62	1962–63 (Provisional)
	£	£	£	£	£
Amenity beds in hospitals	203,776	240,506	247,183	250,892	246,602
Hospital Accommodation for private patients	244,046	287,784	289,570	270,336	300,857
Appliances, etc., supplied by hospitals	16,847	36,535	38,341	39,864	35,624
Dental Services	661,103	940,161	978,022	1,030,124	1,037,899
Ophthalmic Services	454,996	557,761	581,378	665,525	710,825
Pharmaceutical Services	743,590	1,185,293	1,213,677	2,074,773	2,173,745
Local Health Authority Services (mainly home-help service and children's nurseries)	204,212	354,191	520,648	609,504	650,000 (Estimated)
Total	2,528,570	3,602,231	3,868,819	4,941,018	5,155,552

Parcel Mails

Mr. H. Clark asked the Postmaster-General what steps he had taken to improve the parcel post between Great Britain and Northern Ireland. Mr. R. L. Mawby (Postmaster-General) in a written answer on May 29 stated that delays to parcel mails to and from Northern Ireland arose mainly through failures to get them forward by the scheduled trains. In co-operation with the British Railways the G.P.O. were tightening up the loading and transferring arrangements at key stations.

Welfare Foods

Mr. M. A. C. Noble (Secretary of State for Scotland) provided Mr. J. Dempsey with the following details of the welfare foods distributed by local authorities in Scotland in a written answer on May 30:—

Year ended March 31	Cod liver oil (6-oz. bottles)	Orange juice (6-oz. bottles)	Vitamin tablets (pkts of 45)
1961 ...	397,842	2,248,175	189,922
1962 ...	194,936	995,199	96,870
1963 ...	141,396	822,799	63,545

National Health Service in Scotland

Mr. W. Hamilton (National Health Service) asked the Secretary of State for Scotland what had been the total contribution made by the insured population to the National Health Service by way of weekly insurance contribution and, taking that sum, plus the service charges, what proportion of the total cost of the Service that represented. Mr. Noble provided the following information in a written answer on May 30:—

National Health Service (Scotland)

	Contributions from insured persons*	Payments by patients	Proportion of total annual cost
	(£'000)	(£'000)	
1948-49 ...	3,094	363	12·39
1949-50 ...	4,434	468	10·39
1950-51 ...	4,133	491	9·38
1951-52 ...	4,192	929	10·05
1952-53 ...	4,075	1,984	10·71
1953-54 ...	4,129	2,528	11·95
1954-55 ...	4,104	2,681	11·36
1955-56 ...	4,133	2,856	10·96
1956-57 ...	4,152	3,065	10·48
1957-58 ...	6,358	3,383	13·26
1958-59 ...	10,258	3,444	17·54
1959-60 ...	11,005	3,602	17·47
1960-61 ...	11,316	3,714	16·23
1961-62 ...	14,489	4,941	20·13
1962-63 ...†	15,850	5,156	20·38

* Under Section 37 of the National Insurance Act 1946 a small proportion of the National Insurance contributions payable under that Act was appropriated towards the cost of the Health Service generally. As from September 2, 1957, appropriations out of the National Insurance Fund were discontinued and from that date contributions towards the cost of the National Health Service were payable under the National Health Service Contributions Acts 1957 and 1958.

† Provisional figures.

Mr. W. Hamilton also asked by how much the running expenditure of hospitals in the National Health Service had increased in the last ten years; and how much of the increase was due to increases in prices and pay of staff. Mr. Noble's reply stated the total increase in the running expenditure of hospitals in Scotland from 1952-53 to 1962-63 was £29·2 millions; of that total £21·4 millions was attributable to increases in prices and pay of staff. Replying to yet another question by Mr. Hamilton Mr. Noble gave details of the gross cost per prescription in Glasgow, Edinburgh and Scotland. The details were:—

April	Glasgow	Edinburgh	Scotland
	d.	d.	d.
1952 ...	62·5	63·5	62·2
1953 ...	65·4	65·4	65·0
1954 ...	65·1	69·0	65·3
1955 ...	62·3	69·4	63·8
1956 ...	69·2	74·0	67·7
1957 ...	84·3	92·0	80·7
1958 ...	90·5	100·7	87·7
1959 ...	95·3	107·0	92·1
1960 ...	93·8	108·1	93·3
1961 ...	106·5	124·6	105·9
1962 ...	115·0	133·9	113·9

Mr. Bernard Braine (Joint Parliamentary Secretary, Ministry of Health) in a written reply on May 30 gave the following details of the average cost per prescription in England and Wales during the period April 1952-62:—

	s.	d.			s.	d.
1952	3	11½	1958		6	5
1953	4	2½	1959		6	9
1954	4	2½	1960		7	1½
1955	4	3½	1961		8	2
1956	4	8	1962		8	9
1957	5	10				

Summer Time 1964

Mr. Henry Brooke (Home Secretary) informed Sir Anthony Hurd in a written answer on May 31 that a draft Order in Council is being prepared providing for summer time, 1964, to extend from March 22 to October 25.

Parliament adjourned on May 31 until June 17.

COMPANY NEWS

Previous year's figures in parentheses

GLAXO GROUP, LTD.—The Glaxo Group's offers for the preference capital of Edinburgh Pharmaceutical Industries, Ltd., and for the preference capital of William Paterson & Sons (Aberdeen), Ltd., not already held by E.P.I., are unconditional, having been accepted in the case of E.P.I. by holders of over 94 per cent. and, in the case of Paterson, by over 95 per cent. of holders owning over 98 per cent. of the shares subject to the offer. The offers remain open.

ELI LILLY INTERNATIONAL

Centre formed for English research

A NEW pharmaceutical research organisation, Lilly Research Laboratories, Ltd., has been formed near Liverpool with the objective of discovering and developing medicines for both British and export markets. The organisation is made up of a group of British scientists who worked for Distillers Co. (Biochemicals), Ltd., Speke, which was purchased by Eli Lilly & Co., Ltd., Basingstoke, Hants, in January. (The company has since been re-named Dista Products, Ltd.). The research workers are at present engaged in fermentation studies, product development and pharmacology and it is planned to add an organic chemical research unit. Dr. M. V. Sigal, an organic chemist who has worked in the Lilly Research Laboratories in Indianapolis, U.S.A., since 1952, has been named future managing director of the company. He takes up his new appointment during the summer. Dr. Sigal said on May 29 that close scientific liaison would be maintained between Indianapolis and Liverpool by means of regular visits, probably once every three months, but they would not compete with or duplicate the work of the Indianapolis workers. The Lilly group has also established a second company, Elanco Products, Ltd., with offices in Wimbledon, for the purpose of marketing agricultural, veterinary and industrial products in Britain. The first major product to be placed on

the market will be a veterinary antibiotic, Tylan, which is used to combat chronic respiratory disease in poultry. The antibiotic was isolated by Lilly research workers in Indianapolis from a soil sample collected in a rice paddy in Thailand. It will be manufactured in the fermentation tanks of Dista Products, Ltd., Speke. The current expansion of Lilly operations in Britain includes a recently completed construction of a three-story, 10,00 sq. ft. chemical manufacturing plant at Basingstoke. Mr. T. H. Lake, group vice-president of Eli Lilly International Corporation in charge of operations in the United Kingdom, Europe, Middle East and Mediterranean area, explained: "We plan that England will become the supply centre for many products sold by Lilly International throughout the world." A capital holding company, Lilly Industries, Ltd., has also been formed in London to group the four Lilly companies that now exist in Britain. Mr. E. F. Ratliff, vice-president of operations in the U.K., serves as the company's managing director.

EXPANSION PLANS

THE Glaxo Group, Ltd., is building a £100,000 factory in the industrial area of Nairobi, Kenya, and locally produced medicinal preparations and infant foods are expected to be available by the end of the year.

INTERNATIONAL Franchises, Ltd., Thana, Bombay, has entered into agreements with Philips-Duphar, Amsterdam, and Crookes Laboratories, Ltd., to collaborate in a joint venture under the name of Crookes Interfran, Ltd., for the development, manufacture and marketing of pharmaceutical products. Many Crookes' items are already produced locally and it is expected that the range will be extended by Crookes Interfran, Ltd. The basic manufacture of vitamin D is to be started. The directors of Crookes Interfran, Ltd., are W. A. C. H. Bosschaart (chairman), Dr. D. V. K. Raju (managing director), N. Dandeker, I.C.S., Mr. N. S. Phatarphekra, Dr. P. H. Kapre, Mr. S. K. Shah, Dr. H. N. Maniar.

A NEW benzoic acid plant is to be built at Widnes, Lancs, for W. J. Bush & Co., Ltd., members of the Albright & Wilson group. The capacity of the plant will be 6,000 tons a year, considerably larger than that of the present installation which it replaces. It will be sufficient to meet the growth of existing needs and also those expected from the development of new applications for the acid. The production route is via the oxidation of toluene using a process licensed by the Mid-Century Corporation, Chicago. A particular feature of the process is a catalytic system not previously employed for toluene oxidation which will achieve the conversion to benzoic acid more economically than any present process. Production is planned to start in mid-1964. On its completion the new plant, in conjunction with Bush's existing facilities for the manufacture of benzoic acid derivatives, will provide the company with a strong basis to develop their markets for the whole product range, both at home and overseas.

BUSINESS CHANGES

STEVENSON AEROSOLS, LTD., have removed to Thomas Street, Rotherham.

JOSEPH CROSFIELD & SONS, LTD., have transferred their London office to Orchard House, Orchard Street, London, W.1 (telephone: Hyde Park 7871).

Appointments

ARMOUR PHARMACEUTICAL CO., LTD., Eastbourne, Sussex, have appointed the following six medical representatives: Messrs. K. Baxter (Liverpool-Birkenhead); B. Buckley (Manchester); E. G. R. Jones (Swansea); C. J. Wallis (Birmingham); J. H. Whitchelo (Hampshire) and I. J. Winston, M.P.S. (London, N.W.).

BENITO REMUS & CO., LTD., 35 King Street, Bristol, have appointed Mr. K. G. Harvey an outside representative, covering the same territories as the late Mr. E. J. Lyes. Mr. E. V. Rogers will continue as manager and will continue his regular calls, mainly in the counties of Gloucestershire and Somerset and in the city of Bristol.

EDINBURGH PHARMACEUTICAL INDUSTRIES, LTD., announce that Mr. G. H. Spittal, who has been manager of the Edinburgh and East of Scotland branch of T. & H. Smith, Ltd., 104 Holyrood Road, Edinburgh, has been transferred to head office at Wheatfield Road, Edinburgh. Mr. J. H. Henderson, F.P.S., assistant manager of the branch has taken over from Mr. Spittal as branch manager.

PERSONALITIES

DR. J. W. CLARK-LEWIS, who was apprenticed to Pollard and Ramage, Newport, Isle of Wight, in 1937, has been appointed Professor of Chemistry at the University of Adelaide, South Australia. He graduated in pharmacy and one year later in science, at Nottingham University. After war service in India and Germany, he spent a year at Yale University before going to Adelaide in 1955, where he has been senior lecturer and reader in chemistry. Dr. Clark-Lewis was awarded the Doctorate of Science at the University of London in 1961. His wife, Mrs. Audrey Clark-Lewis, is also a pharmacist.

PROFESSOR E. CHAIN, who was awarded the Nobel Prize in 1945 jointly with Sir Alexander Fleming and Sir Howard Florey for their work on penicillin, and who for the past fourteen years has been working in Rome, is to return to Britain in about eight months to lead research into nervous diseases for which a sum of £50,000 has been set aside by the Fleming Memorial Fund for Medical Research to find out more about drugs used in the treatment of nervous diseases. He will work in a new £1,310,000 eight-story laboratory block at the Imperial College of Science and Technology, South Kensington, London.

MR. DOUGLAS STEPHENSON, F.P.S., B.Sc., head of the pharmaceutical development laboratories, Wellcome Chemical Works, Dartford, Kent, retired on May 31 after forty-one years' service with Burroughs Wellcome & Co. An acknowledged expert in tablet production and formulation, Mr. Stephenson became assistant to the head of the Tabloid manufacturing department of Burroughs Wellcome & Co., in 1924, an appointment which marked the beginning of his career in that field. During the 1939-45 war Mr. Stephenson played a large part in developing techniques for the manufacture of sterile tablets for hypodermic injections, especially penicillin. In 1946 he took charge of Tabloid development and six years later was appointed head of the pharmaceutical development laboratories. Mr. Stephenson was author or co-author of seven papers and other contributions to various Pharmaceutical Conferences, and has been responsible for several patents on pharmaceutical methods. He served on many official subcommittees; was chairman of the Dartford Branch of the Pharmaceutical Society and a committee member for several years. He is also an immediate past president of the "Square" Students' Association. His retirement was marked by the presentation of a gold watch, a slide projector and screen from his colleagues and friends throughout the company.

MR. E. J. LAX, who joined Eli Lilly & Co., Ltd., of Basingstoke, Hants, in 1942, as a works chemist, has been elected managing director of the company. Mr. Lax was born in London and educated at Bradford Grammar School, Yorks. He qualified as a pharmacist from Bradford College of Technology in 1937 and received the major qualification in 1938. After joining the company, he became a manufacturing chemist in 1946, production manager in 1957, and director of the production division in 1960. Mr. Lax has been directing the company's operations since September 1962, first as assistant general manager, later as general manager.

DEATHS

KIRKBRIDE. — On May 18, Mr. Alic Clement Kirkbride, M.P.S., 102 North Road, Longsight, Manchester, Lancs. Mr. Kirkbride qualified in 1922.

MOSS.—On May 24, Mr. George Moss, M.P.S., Dunsmore, Taddyforde, New North Road, Exeter, Devon. Mr. Moss qualified in 1909 and was a past-superintendent of Boots Cash Chemists (Western), Ltd.

NICHOLS.—On May 17, Mr. Edgar Robert Nichols, Mayfield, Strathmore Road, Rowlands Gill, co. Durham. Mr. Nichols qualified as a chemist and druggist in 1904 and retired in 1960.

SIMMONS.—On May 20, Mr. Tom Dent Simmons, M.P.S., Flat 9, Ivy Court, Church Lane, Leeds, 7, Yorkshire. Mr. Simmons, who qualified in 1916, was for a number of years in business at 88 Stoney Rock Lane, Leeds.

WEINBRENN. — On October 2, 1962, Mr. Saul Leopold Weinbrenn, M.P.S., P.O. Box 1689, Johannesburg, South Africa. Mr. Weinbrenn qualified in 1923.

WILLIES.—On May 18, Mr. Frederick William Willies, M.P.S., pharmaceutical chemist, of The Wilderness, Grove Lane, Holt, Norfolk. Mr. Willies qualified in 1913.

NEW PRODUCTS AND PACKS

Two Products. — Lederle Laboratories, division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, announce the introduction of the following new products: Varidase streptokinase-streptodornase oral tablets, which have been introduced following the observation that Varidase is not inactivated by the gastric juices as was once thought. Varidase oral tablets are supplied in bottles of twelve. The tuberculin-tine test has been introduced as a speedy and simple tuberculin test with a comparable reliability and sensitivity to the standard Mantoux and Heaf tests. It consists of four tines [or prongs] attached to a plastic handle, the tines having been "dip-dried" with old tuberculin. To use, a unit is removed from its plastic base and pressed on to the volar surface of the mid forearm. Readings take place forty-eight to seventy-two hours later. The tuberculin tine test is stated "to render obsolete syringes, needles and spring-loaded guns." Available in boxes of twenty-five.

Two New Lines.—Southon Laboratories, Ltd., Howbury House, Thames Road, Crayford, Kent, have introduced two new products; EN-O-GE glucose tablets in container of 24, and Eso-Dex indigestion tablets in container of twelve and dispensing pack of 500.

Additional Pack.—Vitamins, Ltd., Upper Mall, London, W.6, are issuing their polyvitamin supplement Vitavel syrup in a 100 mil bottle in addition to the present 200 mil and 1-litre packs.

Aerosol Anti-perspirant. — Care Laboratories, Ltd., 161 New Bond Street, London, W.1, have added to their Check range a new aerosol anti-perspirant deodorant, claimed a big technical advance.

Creme Rinse in Sachet.—Tame creme rinse after-shampoo conditioner is now available from the Toni Co., 100 Brompton Road, London, S.W.3, in sachets. Tame is, it is claimed, absorbed into the hair, making it easy to comb in both the wet and dry state; it is non-greasy and of special benefit to hair that has been damaged or over-bleached.

"Spot" Dry Cleaner.—A new product of Mayborn Products, Ltd., 139 Sydenham Road, London, S.E.26, Dylon-spot dry cleaner comprises a white stick of compressed absorbent chemical powders that is held "like a lipstick" in a black plastic container. Conveniently carried in handbag or pocket, the dry cleaner enables accidental spots on clothing and upholstery to be dealt with immediately they occur. The stick is rubbed on to the spot and, after a few moments, the white powder that forms is brushed off vigorously with a little built-in brush in the other end of the container. Dylon-spot may be used on both washable and non-washable materials.

Matt Make-up.—Guerlain, Ltd., 14 Grafton Street, London, W.1, are introducing a new make-up speciality, Matfilm described as "more than a day cream, more than a simple foundation." Fluid and easy to apply, Matfilm forms a covering make-up, but has, it is claimed, no drying effect on the skin, powder is not necessary, but may be used if desired. The product is available in three shades: Scandinave (a delicate shell pink); Tourangelle (muted golden half tones); and Provencale (a luminous, sun-drenched tan). The pack is a light tube.

A Talcum Redesigned. — Salesmen of the Lambert Chemical division of the Hudnut Group, Eastleigh, Hants,



are currently introducing to customers a redesigned pack of Dubarry talcum powder, as illustrated. The powder is available in three fragrances: Gardenia, Autumn fern and Rose petal.

"Honey-tinted" Shades.—The theme for the current cosmetic sales campaign of Richard Hudnut, Ltd., Eastleigh, Hants, is called "Going Places." It begins with the joint promotion of two new honey-tinted shades, "Cool gold—



a deep creamy tone," and "Cool amber —a rich tawny colour"). Both shades are available in Flatter-Glo fluid make-up, Cloudsilk pearled cream powder and Cloudsilk pearled loose powder. Point of sale material designed on the theme includes a counter display unit holding ½ doz. cream powder refills and ½ doz. tubes of foundation, one-half in each shade.

Pre-make-up Cream. — Bronnley & Co., Ltd., Brackley, Northants, are marketing a new pre-make-up cream, complementing and extending the beauty treatment that starts with their pre-make-up soap. The product is described as a feather-light, non-greasy, well-balanced moisturising cream that penetrates the skin and promotes a moist, velvety surface to form a perfect base for a smooth make-up. It is perfumed to harmonise with the fragrance of the soap. It contains allantoin, glycerin and hexachlorophene.

A New Roller Perm. — The Toni Co., 100 Brompton Road, London, S.W.3, have launched a new Prom speciality, "Roller perm," both as



complete kit containing the regular pack and twenty-four soft-wave rollers, and as a regular pack without the rollers. The product is claimed to give "lots of body, with no curl, no wave, no frizz." It allows hair to "spring back into style, swim after swim after swim."

Holding Hair Spray.—The Alberto-Culver Co., 80 Charlotte Street, London, W.1, have added to their range of toilet preparations available in the United Kingdom a new product, Get Set non-sticky holding hair-spray for



"regular" or "hard-to-hold" hair. Features claimed for the product are that it does not turn sticky or tacky and does not attract dirt, even on the dampest and most humid day; dries quickly; and is "so clean it makes the hair sparkle, so clean it never flakes." The product contains no lacquer or shellac and is claimed to enhance the natural colour of the hair. Its pleasant fragrance evaporates quickly, and thus does not clash with perfume or Cologne. The pack is a 7-oz. aerosol container.

TRADE NOTES

Price Reduction.—Pfizer, Ltd., Sandwich, Kent, are reducing the prices of their antibiotic preparations from June 10. The new trade prices will be given next week.

Free Gift With Every Packet. — Haetam, Ltd., 63 Corporation Street, Manchester, 4, announce that from June 15, for a short time only, a free gift of a shopping bag will be issued with every packet of hair rollers.

Self-service Counter Tray. — A new Rimmel "Beauty-on-a-budget" tray holds 288 items, yet takes only 21 x 18½ in. of counter space. Manufacturers of the series are Rimmel, Ltd., 62 Baker Street, London, W.1.

U.K. Agents.—Practical Pharmaceuticals, Ltd., 50 Jesmond Road, Newcastle-on-Tyne, are now appointed U.K. agents for the products of Hermes Sweeteners, Ltd., Zurich. The arrangement includes the product Hermesetas now being launched on the British market.

Corrections. — BOEHRINGER INGELHEIM, LTD., Isleworth, Middlesex, point out that the trade price of the display pack of twenty 10-tablet packs of Dulcolax is £1 and not as stated in their advertisement in this issue.— LEICHNER (LONDON), LTD., 30 Acre Lane, London, S.W.2, state that rose Valerie is the lipstick recommended for use in cases where lip allergy might arise.

A Glasgow Depôt Destroyed.—Following the destruction by fire of their Glasgow depôt on May 27, Smith & Nephew, Ltd., Smith & Nephew Pharmaceuticals, Ltd., and Smith & Nephew—Southalls, Ltd., are supplying chemists and hospitals in Scotland, Northern Ireland and Northumberland from other depôts in Lancashire for the time being.

Guarantee Seal Change. — The Institute of Good Housekeeping announce a further strengthening of the guarantee that accompanies the award of the Institute's seal. Henceforth the wording of the guarantee will be "If product or performance defective British Good Housekeeping Institute guarantees replacement or refund to consumer." All present seal holders are being provided with new stereos and electros free of charge on a "one-for-one" basis.



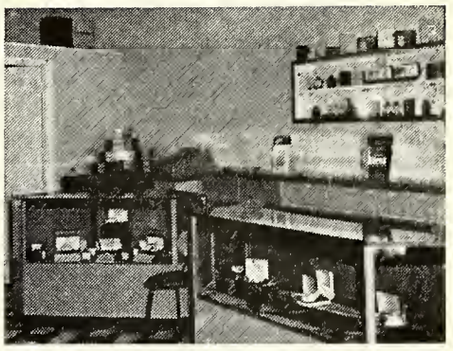
Products carrying the guarantee seal include:— ALBRIGHT & WILSON (MFG.), LTD., 1 Knightsbridge Green, London, S.W.1 (Calgon water softener). BULPITT & SONS, LTD., Birmingham, 18 (Comfie aluminium hot-water bottle). CANNON RUBBER MANUFACTURERS, LTD., London, N.17 (rubber hot-water bottles). J. L. CAPLIN, LTD., 178 Homerton High Street, London, E.9 (Teacher beaker). P. B. COW (LI-LO), LTD., Slough, Bucks (hot-water bottles; plastic baby pants). R. DEMUTH, LTD., Bear Lane, Farnham, Surrey (Pomp aerosol mothproofer). DENHAMS (NORWICH), LTD., All Saints Road, London, W.3 (Norvic electric blankets, L3 and DL3). DOMESTOS, LTD., Newcastle-on-Tyne, 6 (Bubbly Stergene). DUNLOP RUBBER CO., LTD., Cambridge Street, Manchester, 1 (Dunlop house gloves). DUNLOP RUBBER CO., LTD. (G.R.G. division), Cambridge Street, Manchester, 1 (rubber hot-water bottles). EKCO HEATING AND ELECTRICAL, LTD., 41 Old Street, London, E.C.1 (Warm-glow electric blankets). EKCO PLASTICS, LTD., Southend-on-Sea, Essex (baby bath). EUCRYL, LTD., Southampton, Hants (Dabitoff drycleaning fluid). FLUSH CHEMICALS, LTD., Liverpool, 24 (automatic deodoriser). WILLIAM FREEMAN & CO., LTD., Barnsley, Yorks (plastic hot-water bottles, etc.). G. T. FULFORD & CO., LTD. (of Canada), Hatch End, Middlesex (Handjoy hand cleaner). GUARD RUBBER CO., LTD., 228 Portland Road, London, S.E.25 (Mamselle domestic gloves). W. W. HAFFENDEN, LTD., Sandwich, Kent (British Warm hot-water bottle). HALEX DIVISION, BRITISH XYLONITE CO., LTD., Highams Park, London, E.4 (Bex Bissell shampoo-master). MAYBORN PRODUCTS, LTD., London, S.E.26 (Dygon colour and stain remover; Dylon dyes and bleaches, etc.). NEW HYGIENE, LTD., 266 Holloway Road, London, N.7 (Scentinel air freshener). NICHOLAS PRODUCTS, LTD., Slough, Bucks (Dis-Pel deodoriser; Lifeguard disinfectant and antiseptic). JAMES NORTH DISTRIBUTORS, LTD., Tottenham Court Road, London, W.1 (Glovelies Featherflex household gloves). PAROZONE CO., LTD., 203 Carntyne Road, Glasgow, E.1 (Parazone bleach). P.C. PRODUCTS (1001), LTD., Swinton, Manchester (1001 cleaner). PHILIPS ELECTRICAL, LTD., Shaftesbury Avenue, London, W.C.1 (electrically-heated blankets). PIFCO, LTD., Watling Street, Manchester, 4 (Hi-Speed hair dryers). PRECISION ENGINEERING CO. (READING), LTD., Reading, Berks (Waymaster household scales). J. N. PREWITT (U.K.), LTD., Crown House, Morden, Surrey (Matey children's bath detergent). RACASAN, LTD., Ellesmere Port, Ches (Racapan lavatory block; Racasan air freshener, moth-repellent, fly-killer aerosol). SECTO CO., LTD., Shaw Street, Blackburn, Lancs (Astral air freshener; Secto aerosol fly and wasp killer; Super Secto ant powder, and insecticides). SPONCEL, LTD., 40 Chancery Lane, London, W.C.2 (Spontex cellulose cleaning cloth). THAWPIT, LTD., Unity House, Great West Road, Brentford, Middlesex (Coliclean stain remover). THERMOS, LTD., Brentwood, Essex (Thermos brand vacuum ware). THOMPSON & CAPPER, LTD., Speke Hall, Liverpool, 19 (Parador air freshener). F. J. THORNTON & CO., LTD., 20 Artillery Lane, London, E.1 (Viking domestic scale). VACCO, LTD., Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1 (Vacco vacuum flasks). W. & F. WALKER, LTD., Industrial Estate, Kirkby, nr. Liverpool (Rotosan air conditioners). WARMABED, LTD., Knottingley, Yorks (Warmabed de luxe electric blanket). WHITECROFT (LYDNEY), LTD., Whitecroft, Lydney, (stainless steel napkin pins).

Information for Manufacturers

Packaging Service.—Claiming to be pioneers in unit packaging and specialists in strip packaging, The Wallis Laboratory, Ltd., Holywell Estate, Watford, Herts, invite inquiries regarding own name packs.

Discontinued. — Howards of Ilford, Ltd., Ilford, Essex, have discontinued supplying magnesium trisilicate, magnesium trisilicate compound, magnesium hydroxide mixture, calcium phosphate, zinc carbonate and sugar-coated tablets of quinine sulphate and of bisulphate.

A New Detergent Chemical.—To the range of detergent chemicals produced by Marchon Products, Ltd., Whitehaven, Cumberland, has been added a thirty per cent. active magnesium lauryl alcohol ether sulphate, Empimin DNM 30. An industrial-grade product, it is formulated for incorporation in hard-surface cleansers, especially for domestic use where the introduction of magnesium ions leads to improved detergency in soft water.



SERVICE FOR ELECTRIC SHAVERS: Interior view of new Schick Incorporated (U.K.), Ltd., service centre at 128 Charing Cross Road, London, W.C.2.

Horticultural Trade Notes

Clover Control in Lawns.—Pan Britannica Industries, Ltd., Waltham Cross, Herts, have put on the market a new product enabling amateur gardeners to get rid of clover in lawns. The product, PBI lawn clover killer, contains the new hormone weed-killer mecoprop (CMPP). Approved under the Agricultural Chemicals Approval scheme, it bears the official approval mark. It is issued in 2-oz., 4-oz. and 8-oz. bottles, each in standard pack of twelve. Also being launched for the control of rose mildew, is a new product, Karathane spray. Each standard pack contains a 24-sachet "dispenser" that takes up only 3½ by 4½ in. of counter space. The manufacturers stress that Karathane spray is "not a revolutionary new fungicide. It has been used and proved by rose growers over a period of years." What is new is the packaging, which eliminates the need to weigh or measure the product by the spoonful, the foil sachet giving the required quantity to make two gall. of full-strength spray. The spray may also be used on gooseberries, strawberries, apples and flowers to achieve the control of powdery mildew.

Improved Presentation.—The "best-selling liquid plant food for house plants," Baby Bio, is being brought out in a new outer, with new "dispenser," new leaflet, and redesigned label. The new outer contains twenty-four bottles, "dispenser," and banded pack of leaflets. It has on it an illustration of one of the widest selling pot plants: cyclamen. The new leaflet, "How to care for your House Plants and Bulbs," deals with a far wider range of house plants than was covered by the previous publications.



SCOTTISH DEPARTMENT

Candidates for election to Executive

THE following members of the Pharmaceutical Society resident in Scotland are presenting themselves for election to the Executive of the Scottish Department. Voting papers were issued on June 6 and must be returned by June 18.

MR. ROBERT ARTHUR BRODIE, Edinburgh.—Qualified in 1950 after studying at the Heriot-Watt College, Edinburgh. Has been manager of various Boots, Ltd. branches. At present manager at Earl Grey Street, Edinburgh. A member of committee, Edinburgh and South-eastern Scottish Branch, Pharmaceutical Society, since 1957 and a member of local committee, British Pharmaceutical Conference, 1964.

MR. JOHN BATEMAN DUNNETT, Edinburgh.—Qualified in 1933. A representative for company of manufacturing chemists. A member of committee, Edinburgh and South-eastern Scottish Branch Pharmaceutical Society and a former chairman. A member of local committee, British Pharmaceutical Conference, 1964.

MR. SYDNEY GEORGE HOME, Edinburgh.—Qualified in 1920 after serving apprenticeship in retail pharmacy in Glasgow. Had eleven years' experience as manager of pharmacies in Glasgow before being appointed, in 1931, assistant to the superintendent, Central Checking Bureau, N.H.I. Drug Accounts Committee (Scotland). Two years later was appointed chief pharmacist, Corporation of Glasgow public health department, where he obtained wide experience in administration of hospitals, clinics, etc. On the introduction of the National Health Service, was appointed chief pharmacist, Western Regional Hospital Board (Scotland) before being appointed to his present position of Scottish manager, Edinburgh Pharmaceutical Industries, Ltd. A director, W. & R. Hatrick, Ltd., Glasgow, and W. Paterson & Sons (Aberdeen), Ltd., Aberdeen. Formerly vice-chairman, Glasgow and South-western Scottish Branch, Pharmaceutical Society. Was first president, Glasgow and South-western Scottish Branch, Guild of Public Pharmacists. Vice-president, Scottish Wholesale Druggists' Association. Has served for four years on the Scottish Executive.

MR. JOHN MACLEAN, Auchinleck. — Qualified in 1929. A director, John MacLean (Chemist), Ltd. Chairman, Ayrshire Branch, Pharmaceutical Society and a member, local pharmaceutical committee. Was co-opted to the Scottish Executive in 1962.

MR. MALCOLM STUART MACONOCHIE. Dundee.—Qualified in 1926. A proprietor pharmacist. A former chairman, Dundee and Eastern Scottish Branch, Pharmaceutical Society and a former secretary, Dundee Pharmaceutical Committee. Has served on the Scottish Executive for eight years.

MR. FRANCIS MELROSE, Glenrothes. —Qualified in 1926 after attending classes at the Royal Dispensary, Edinburgh. After considerable experience in the West of Scotland, including ownership of pharmacies in Muirkirk and Ardrossan, opened a pharmacy in the new town of Glenrothes, Fife, in 1952. Chairman, Fife Branch, Pharmaceutical Society. A member of local committee, British Pharmaceutical Conference, 1964. For past ten years has been a member of Fife Pharmaceutical Committee.

MR. ADAM ROXBURGH, Prestwick.— Qualified in 1935. After ten years in retail pharmacy, entered the hospital service and was for seventeen years chief pharmacist, Northern Ayrshire Hospitals and now for four years chief pharmacist, Glasgow Royal Infirmary. Has been a member, Scottish Executive since 1960. A committee member, Ayrshire Branch, Pharmaceutical Society since its formation. A former chairman, Glasgow and South-west of Scotland Branch, Guild of Public Pharmacists and a member of both Scottish and British Hospital Pharmacists' Consultative Committees.

MR. GEORGE SHEPHERD, Aberdeen. —Qualified in 1937 after an apprenticeship served with Davidson & Kay, Ltd. Was assistant pharmacist there until called up for war service in 1942. On demobilisation in 1946, returned to the firm as senior assistant. Became a director in 1950 and director in charge of the branch at 3 Alford Place, Aberdeen, in 1960. Vice-chairman, Aberdeen and North-eastern Scottish Branch, Pharmaceutical Society, and has served on its committee for the past three years.

MR. HENRY TURNBULL THOMAS, Kelso.—Qualified in 1926 and, after a period at the Royal Infirmary, Edinburgh, returned to the pharmacy where he was apprenticed, J. M. Massey & Co., Kelso, becoming its proprietor in 1936. His pharmacy includes a biochemical laboratory recognised by the regional hospital board. A member of the North British Executive 1939–40 and has been a member, Scottish Executive, since 1947, being chairman 1951–53. Co-opted to the Council of the Pharmaceutical Society in 1953, but did not stand for election the following year for health reasons. A member, Standing Pharmaceutical Advisory Committee, Scottish Health Services Council. During the past war served in the Royal Navy, attaining the rank of commander R.N.V.R.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Britain's 2½ Million Babies

SIR, — Congratulations on your article in the recent issue in which you point out the growing size and importance of this £24 million market. I interpret your article as a call to action—action to arrest the drift to the supermarkets. Bearing in mind that advertising has a vital bearing on this, I submit that chemists can best protect themselves by giving their support (by display and recommendation) to those manufacturers whose advertising constantly tells the public to buy at the chemist's. H. M. SEWARD,
Perivale, Greenford, Middlesex

Not in Scotland

SIR,—Our attention has been drawn to a circular letter dated May 31 from Lederle Laboratories, and addressed to "all retail chemists" regarding certain price reductions to take effect on June 10. The letter refers to an agreement which exists "with the Ministry of Health" whereby prescriptions for products on which the price will be reduced on June 10 will continue to be reimbursed by the National Health Service at the old rates until the end of July. This arrangement is supposed to relieve the manufacturer of the necessity of passing credit for stocks held by chemist contractors. The position in Scotland, however, is entirely different. The appropriate Government authority is the Secretary of State for Scotland and as far as normal price changes are concerned any alteration upward or downward becomes effective for the pricing of N.H.S. prescriptions on the first day of the month immediately following that in which the manufacturer's price is changed. The secretary of the Association of the British Pharmaceutical Industry reminded their members of these facts last year after similar price reductions had taken place. We are therefore advising Scottish chemist contractors who have stocks of the "old price" products on hand at the end of June to claim credit from the manufacturer for the loss involved. M. M. MCNEILL,
Secretary, The Pharmaceutical General Council (Scotland)

Candidates' Thanks

SIR,—I would like to express through your journal my sincere thanks for the support given to me by voters in the recent Council election.
HUGH H. CAMPBELL,
Edinburgh

SIR,—May I, through the courtesy of your columns, extend my sincere thanks to all those who voted for me in the recent Council election. I should particularly like to thank all those who have supported me during the past eight elections and assure them that I shall do my best to justify their confidence.
KENNETH HOLLAND,
Upminster, Essex

SIR,—May I thank all the pharmacists who voted for me. I will do my best to justify the confidence they have shown in me. J. P. KERR,
Newcastle-on-Tyne, 6

SIR,—My very sincere thanks to all members who voted for me in the recent Council election. And my best wishes and congratulations to the four new members of Council. May their deliberations be crowned by success, and may they make useful contributions to the life and well-being of the Society.
H. RIDEHALGH,
Bournemouth

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at
28 Essex Street, Strand, London, W.C.2

TELEPHONE: CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Self-help for "Redevelopment" Victims

THE National Chamber of Trade recently stated that, so far as is known, nobody has yet given thought to the economics of shopping-area redevelopment except the retailers directly involved (who have been compelled, sometimes disagreeably, to look at their own individual position), or the developers, who have, of course, been looking for profits. The Chamber is therefore organising a country-wide fact-finding inquiry, surveying the redevelopment of shopping areas, in order that its representatives may be fully apprised of the objectives and results of redevelopment schemes wherever they operate. Without that information the Chamber is obviously, in any discussions with civil servants, members of Parliament, local Government authorities, or estate developers, labouring under a severe handicap.

At some point somebody is going to take a serious look at the inflationary effect of redevelopment schemes, which inevitably seem to result in considerably higher rentals, and those must ultimately come out of the pockets of customers. There is some evidence that the problems are beginning to be investigated by individuals and organisations, and in particular the Department of Land Economy, Cambridge University, is embarking on research studies on the shopping need of counties, towns and cities. Discussions on the problem have also taken place between the Royal Institute of British Architects and the Ministry of Housing and Local Government and another is to take place in three or six months' time.

The National Chamber of Trade argues — and we agree—that it is not good enough that the future of retailing should be discussed and debated by town planners, architects and departments of universities to the exclusion of the retailers themselves, who have been the principal agents in building up the retailing facilities of the country. The Chamber, as representing retailing interests, has a rôle to play in the country's affairs, but can only do so if there is available adequate background of information, which must be continuously revised as local scenes change.

The central body relies upon officers of local chambers to provide much of the information, but believes that individual retailers often have their private sources of information or some personal experience which it would be useful to others to give. Any who have are asked to get in touch with the National Chamber, giving details of rentals and leases of new shops offered to retailers displaced by redevelopment schemes, and similar factual information. That will be added to the general pool of experience that is being accumulated. If, as a result, it becomes possible to bring pressure to bear on authorities so that existing traders may obtain first options on new shops at reasonable rentals, something worth while will have been achieved. All who can assist the Chamber should therefore do so.

Patents and Trade Marks in 1962

THE Comptroller-General's annual Report for 1962 on the work of the Patent Office (H.M. Stationery Office, price 2s. 6d.) discloses that applications for patents and complete specifications filed during the year were higher than ever before. Over 49,187 applications were received, and 27,721 patents were sealed. More than 22,000 complete specifications claimed Convention priority, indicating clearly that the system is being used increasingly for the protection of inventions from abroad. The number of patent applications from the United States alone has increased by over 5,000 since 1953, and totalled 10,602 during the year under review. There were 5,937 applications from Germany, and 2,083 from France, whilst Switzerland's quota was 1,504, and twenty-seven applications were received from Soviet Russia (five more than in 1961). At the beginning of 1962 the number of unexamined complete specifications was 38,305, a figure reduced to 37,255 by the end of the year, in spite of an increase of 1,181 in the number of complete specifications filed. The Comptroller states that the effect of the reduction of arrears of unexamined patents has been to bring down from 13 to 12 months the average time taken between the filing of the complete specification and the issue of the examiner's first report. The maximum time available to an applicant in which to satisfy the requirements of the Patents Act was reduced from $3\frac{3}{4}$ to $3\frac{1}{4}$ years on January 1, 1962. That amendment applied only to applications filed on or after that date and the effect of the change is unlikely to be felt for some time. Meanwhile the Comptroller points out that an increasing number of applicants are apparently in no hurry to receive a patent for their invention, since they seek the maximum available time allowed to satisfy the requirements of the Act. The Comptroller draws attention to that situation, and suggests it is open to question whether it is really in the public interest. Until the application is ready for acceptance it cannot be published, so that knowledge of important new developments is delayed and industry may well be inhibited from embarking on new processes or products suspected to be the subject of unpublished patent applications.

The Comptroller makes reference to the activity relating to the patenting of synthetic drugs for the treatment of rheumatism, using new corticosteroid derivatives; of diuretics for oral administration, using compounds of the benzothiadiazine series; and of the developments in plastic ducts for surgical uses (such as replacing blood vessels).

Applications for trade marks in 1962 numbered over 14,000 (rather more than in 1961) and in all 9,754 marks were registered. Trade marks advertised in class 5 (pharmaceutical, medicinal, surgical and sanitary substances) again showed the greatest number of registrations (951 out of 1,052), the similar figures for 1961 being 1,141 and 1,164. It is clear that the interest of the pharmaceutical industry in patent and trade-mark

matters continues at an extremely high level. That is to be expected in view of the increased research activity of the industry, and it would seem that the action of the Ministry of Health in using section 41 of the Patents Act to obtain certain groups of widely used drugs for the hospital service at "cut" prices has not discouraged inventors from making patent applications. Other sections of the Act, of course, do provide the means of guaranteeing that the fruits of research are gathered by those who have carried out the work.

Onward from Galen

SIDELINES OF CURRENT COMMENT

★ FULLY COMMEMORATED ★

WHILE thoroughness (*Durchligkeit*) was formerly considered a characteristic possessed in special measure by



the Germans, it seems they may have something to learn from the manifold ways in which the 200th anniversary of the birth of the distinguished French pharmacist Vauquelin has been honoured in his own country. On another page is published the report sent to us by a correspondent who attended the double celebration by the French History of Pharmacy Society of the bicentenary and of the Society's own jubilee. The report arrived at Essex Street in the envelope reproduced above, on which the Society's own portrait of Vauquelin in colour is reinforced by a commemorative Vauquelin postage stamp cancelled with a Vauquelin post-mark which, for good measure, is repeated.

★ ONE HUNDRED YEARS OF SERVICE ★

REACHING its centenary this year is the manufacturing process for one of the commonest household chemicals—soda. Its inventor, Ernest Solway, was born at Rebecq, Brussels, in 1838, and at the age of sixteen he was sent by his father to his uncle Semet, director of a gas works at Schaerbeek, where he received some technical education in gas technology and practical experience. While experimenting with ammoniacal liquors, he observed that solid ammonium bicarbonate, when dissolved in sea water, caused the precipitation of sodium bicarbonate due to the latter's low solubility. That reaction had already been established by the French engineer and physicist, A. J. Fresnel (1788–1827) in 1811, but his attempts to produce soda from the action of carbon dioxide and ammonia on salt solutions had met with failure. However, Solway succeeded and after patenting his process in 1861, brought it into commercial use at Couillet, Belgium, in 1863. It was to take a decade to overcome the technical difficulties that presented themselves, but by 1872, he was able to take out a more extensive patent in Britain. The rights were soon acquired by Ludwig Mond and, in partnership with John Brunner, he established the first British works to use the ammonia-soda process at Winnington, near Northwich, Cheshire, in 1873. [In 1926, Brunner, Mond & Co., Ltd., became one of the four main parties to the merger that formed Imperial Chemical Industries, Ltd., whose Alkali Division has its headquarters at Winnington.] About the same time, other factories were erected in France, then Germany, and in 1884, the first soda ash producer in the United States of America was built at Syracuse, New York. Despite the Solway process producing a cheaper, purer soda, it took many years to replace the Leblanc process then in use, mainly because of the technical improvements made in the latter. But the change was inevitable, and between 1874 and 1902, world production of soda rose from 525,000 to 1,800,000 tons, while the part produced by the Leblanc method fell from 495,000 to 150,000 tons, the price being cut by more than half.

★ MANPOWER SURVEY ★

ANY study of the question of maintaining the number of pharmacists the community needed for adequate provision of facilities for obtaining its medicines demands in the first place full knowledge of how many members of the Society (who must all have entered the profession to play their part in that service) are still directly engaged in the same sort of work. For that reason the Council of the Society decided (see *C. & D.*, February 16, p. 175) to institute the manpower survey which has already commenced. Some members will have received, and all will in due course be receiving, a reply-paid inquiry card asking for certain information to be given in confidence (and in code). An undertaking has been given by the Council that the information so received will be used only in statistical form. Members are asked to indicate whether they are engaged in retail pharmacy as proprietor, manager or assistant of a private business, or as controlling director (superintendent or not), director, manager or assistant, of a corporate body, or thirdly as locum; whether they are engaged in hospital pharmacy as group chief, senior, or "plain" pharmacist or locum; in industry, in production, sales, research or administration; or in some other category of employment, whether requiring pharmaceutical knowledge or not. Finally, those pharmacists who have retired are asked to indicate that on the form. In a matter which is of such obvious benefit not only to the community, but to the future of the profession itself, and in which there would seem to be no justifiable reason for withholding information, it is strongly to be hoped that a 100 per cent. return of the forms will be forthcoming.

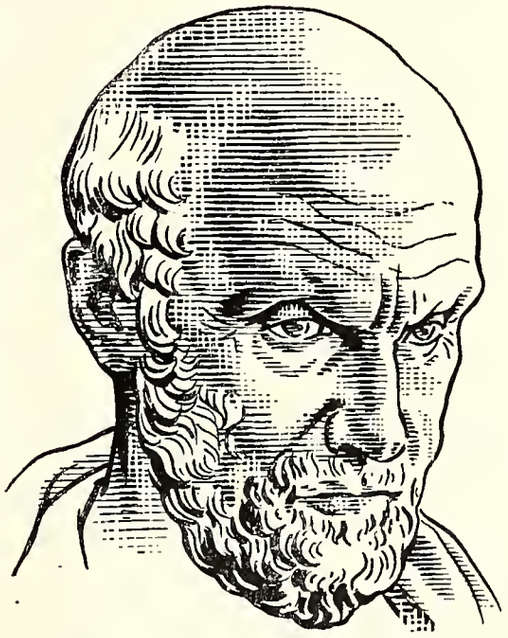
NEW BOOKS

A Nose for Money

DOUGLAS COLLINS. *Michael Joseph, Ltd.*, 26 Bloomsbury Street, London, W.C.1. 8¾ x 5½ in. Pp. 255. 21s.

DESPITE its subtitle ("How To Make a Million"), this book is not a guide to financial success. It is, of course, an autobiography of the man who, before settling down to found the Goya perfumery business from which he was later able to obtain £1 million for goodwill, worked in (among other things) a stockbroker's office, Monte Carlo hotels, a paint factory and a small greengrocery business. His first bid as a supplier of toiletries was to make hair cream, which he hawked around barbers' shops and for which he rarely was able to obtain payment. First step on the road to success came with an order received from a woman's magazine which, to boost its readership, decided to give away to each purchaser a small phial of perfume. "You can't," says Mr. Collins, "give the ordinary woman a shilling slice of a ten-guinea hat or a thousand-guinea mink coat. But you can give her a tiny phial of the sort of perfume the mink coat brigade wear if you cut all the trimmings." His entry into the United States market was less rewarding: "A store there can sell a great deal of merchandise during a promotion period and then send its surplus back to the manufacturer. The power of a retail store to return merchandise is called the 'fair trade' practice. This is a form of transatlantic humour." The author frankly describes the way in which most of his money was obtained. From the merger with J. C. & J. Field, Ltd., to the sale of the Field business to Griffiths Hughes, Ltd., leaving him with the Goya business and on to the sale of that business to Reckitt & Sons, Ltd., for £1,500,000—transactions which left many of the city editors baffled.

"FATHER OF MEDICINE"



Hippocrates Reappraised

LESLIE G. MATTHEWS

BORN about 460 B.C. on the Island of Cos, one of the Dodecanese group, in the Eastern Mediterranean, Hippocrates flourished amongst great contemporaries —Aristotle, Socrates, the sculptor Phidias, the historians Herodotus and Thucydides, the poet Pindar, and the major Greek playwrights, Aeschylus, Aristophanes, Euripides and Sophocles. He was himself a giant in the days of giants. It has been said that the literature that has grown up around Hippocrates exceeds that of any other physician, with the possible exception of Sir William Osler. How did Hippocrates acquire his great reputation? "If one asks what Hippocrates meant to the Greeks, the Middle Ages, the Renaissance, what he means even today, the answer is that by a complicated historical process he has become the embodiment of the ideal physician" (Edelstein, in the Oxford Classical Dictionary, 1950).

By tradition, Hippocrates was connected with the famous Guild of Physician-priests, the Asclepediae, who served the many Temples of Asclepius, centres of healing. This has been disproved, however, since archaeology has produced evidence that no Temple of Asclepius was on the Island of Cos during his lifetime. One of the temples, a shrine built about 2500 years ago, remains at Cos in a partly reconstructed condition. It was there, under circumstances that gave the ceremony an added sanctity, that the visiting members of the International Conference of Neo-Hippocratic Medicine, in April 1958, solemnly took the Hippocratic Oath—a remarkable occasion, judging by the report and the photographs.

Lasting Contribution to Medicine

Undoubtedly the lasting contribution of Hippocrates to medicine was the development of a "clinical system of rational experience and common sense . . he anticipated the era of medicine in the ancient world" (Edelstein). Hippocrates was no stay-at-home: in his early life he made many journeys to the Near East, going as far as Persia, and his works, especially that on "Airs, Waters and Places" reflect the comparison he made in the temperaments of peoples, their activities and their diseases, and their relation to climate and natural surroundings. It is in this work that he advises the would-be skilful practitioner, when treating a patient, to take into account the season of the year, the winds, hot or cold, the environment and the availability of baths and waters. All these, he says, have their effect upon the inhabitants. He goes on to contrast the physical characteristics of peoples in hot and arid countries—flabby bodies, belly disorders, and liability to epidemics—with those in cold or moist climates. Those who have too much cold, if over the age of fifty, are subject to paralytic shocks, when "defluxions supervene from the brain." In the more northerly countries, he points to manly courage, endurance of suffering, enterprise and high spirits, as qualities engendered by the climate, as opposed to the lassitude seen in hotter countries. In thus calling attention to the wide variations in human ecology, Hippocrates may be considered as "the first medical geographer" and to have stimulated thought that has, in our day, brought to the front a subject, whether under the title of "Social Medicine" or similar term, that has called for the institution of professorial chairs in many universities. and as widely apart as Cambridge and Malaya.

Of the strict and admitted "Canon," or accepted books, directly attributable to Hippocrates himself, each philosopher or student seems to be his own judge, basing his opinion upon the content of the work, its literary style or the views of writers close in time to the Hippocratic Age. (It has to be left to the specialist to make up his own mind since there has been no Council of Carthage, of Trent, or of the Reformation, as in the case of Scripture, to determine what or what shall not be admitted as authentic.) There is, however, general acceptance of such works as the Aphorisms, Airs, Waters and Places, Diet, Wounds of the Head, Prognostic—the progress of acute diseases, The Regimen, associated with acute disease, Epidemics (Books I and III), Fractures, Instruments of Reduction, and the Oath. There is less agreement about the book on the Sacred Disease (Epilepsy) and those on a wide variety of medical subjects that are commonly known as the Hippocratic Collection—books written and circulated in the classical period of Greek medicine, and known also through the Greek culture of Alexandria.

Singer, in his contribution on Greek Medicine (Oxf. Clas-

sical Dict.) places special emphasis upon the importance which Hippocrates gave to the physician's personal observation of his patient—how ill is he? Hippocrates says that the physician must cultivate *pronoia*—a term which covers more than mere prognosis and which includes the sense of knowing things without having to be told them. He should carefully record his assessment of the case. (Adams, on this point, writes: "The physician who cannot tell his patient what would be the probable issue of his complaint, if allowed to follow its natural course, is not qualified to prescribe any rational plan for its cure.")

A typical example of the value of diagnostic signs is the well-known Hippocratic Facies—a description of the signs of death, which Hippocrates maintained could be observed in acute disease; and, when there was no decided reason for them, the physician could almost with certainty foretell the death of the patient. The general acceptance of the validity of these signs, in the circumstances prescribed by Hippocrates, has persisted to the present day.

Of the use of drugs in the treatment of disease, little is to be found, unless drugs are to be employed out of their usual context, it being understood, apparently, that the physician would naturally use the ordinary drugs in the usual way, without being told precisely what to do. (According to Singer, the general treatment of patients at that time was much on a par with that of the conservative English country practitioner of the early nineteenth century.) The physician obviously had to have drugs, and, in the Surgery and in the Book concerning Propriety, mention is made of the necessary contents of the *Atrium*, the surgery set up by the travelling physician or surgeon.

It was customary for practitioners to set up houses in townships to which they travelled, often taking with them their own assistants and nurses. In fact, there are views that some of the obligations to be sworn in the Hippocratic Oath were of a personal nature by the assistant to the physician, rather than to the generality of mankind, hence the undertaking not to disclose information about the patient or his disease, and the like. The understanding not to cut for the stone arose, apparently, from the fact that lithotomists were treated as an unqualified class of operators, below surgeons, and carrying on their own practice—one which survived, in this country at least, well into the nineteenth century. The "surgery" was to be well constructed and to be equipped with the necessary instruments, bandages and medicines. Preferably the surgeon should be ambidextrous. Bandaging should be done skilfully and without pain to the patient, and neatness in finish was desirable. The right kind of compression could be obtained by waxing thin strips of seamless linen cloth as bandage material. (A modern touch, and one well known to first-aiders, is added by the statement that every bandage has a tendency to fall off towards the part that declines or becomes smaller, e.g. downwards, in the case of the leg.) The physician should have ready his various emollient preparations, his potent draughts, his purgative substances, gathered from the best sources, all properly prepared and conserved. The substances to be used for freshly-prepared medicines should be handy and the others got ready beforehand. White hellebore (*Veratrum album*), plentiful in South-east Europe, was to be used in cases of excessive pain. For constipation Hippocrates recommended decoctions of herbs such as *Mercurialis perennis*, beet or cabbage; as drastic purgatives there was a choice of elaterium, scammony or the spurges. Although there are frequent references to a "Book of Pharmacy," this does not appear to have survived (Littré).

The Aphorisms and Their Importance

Of particular importance were the Aphorisms of Hippocrates. These were succinct statements of doctrine or points of practice, the compressed experience of a lifetime, many of which had been set out *in extenso* in his many books. In Adams's translation these Aphorisms number over 400, divided into seven Sections, not all of which are universally accepted as being the true word of the master-physician. They have been translated into most of the learned languages, and their elucidation or the explanations of their true meaning have occupied many volumes, far outstripping the original composition. A few examples will illustrate the style:

Sect. I (1) Life is short, the Art long, the time pressing, experience fallacious and judgment difficult, etc.

Sect. II (2) It is easier to fill with drink than with food—i.e. an emaciated body can more readily tolerate liquids than solids.

(23) Acute diseases come to a crisis in fourteen days.

Sect. V (17) Cold induces convulsions, tetanus, mortification, and febrile rigors.

Sect. VII (11) Pneumonia coming on the top of pleurisy is bad.

In his books on Epidemics, Hippocrates stressed the effect of the seasonal phenomena, moist or humid winds, on the kinds of diseases that would flourish. Curiously, although Thucydides wrote of the plague, Hippocrates does not seem to have given attention either to that or to other contagious diseases. Many diseases, he said, were airborne—an epidemic resulted if all breathed the same air. It is in one of these books that Hippocrates makes the statement that "the physician should do good or at least do no harm."

Temple Incubation Therapy

The Hippocratic writings refer to the Temple Incubation therapy which was regularly practised in his day at the temples of Asclepius. The patient slept the night in the temple—perhaps sleep was induced by mild hypnosis—he usually had dreams, wakened recovered, and, prior to his departure, often dedicated a votive offering, which frequently took the form of that part of the body that had been healed. This method of treatment persisted through the centuries, spreading into Western Europe. Such was the famous "miracle" of SS. Cosmas and Damian in Rome in the third century A.D.—see *Journal of Amer. pharm. Assocn.* (*Sc. Ed.*), March 1942. It spread, too, into England through the Celtic tribes, as is evidenced by the finds at Lydney Park, Glos. The excavations there revealed, besides the remains of a temple, a guest house and a suite of baths. Votive offerings were found, associated with Nodens, the God of Healing. It is clear, however, that on to the Celtic cult were grafted accretions from classical and Eastern sources. (Corcoran, in *Arch. News Letter*, 1960, 6. **12.** 273.)

In contrast with the great attention that the Chinese gave from the earliest times to the pulse as a source of information in disease, Hippocrates makes no mention of it as providing any help in diagnosis. The things that did matter, in his view, and the list is not exhaustive, were the patient's habits, régime, pursuits, conversation, manners, taciturnity, thoughts, sleep or its absence, dreams, picking and scratching (in delirium), discharges, deposits, coughs. From these a judgment could be formed. That admirable list, formidable enough, could only have been reviewed if there were adequate time at the consultation: scarcely applicable to a full surgery of waiting patients on a winter's day. Would the use of drugs be lessened if there were time to review all those points and assess their bearing upon the individual's complaint? Perhaps it is expected only of the psychiatrist that he should explore the patient's mind and circumstances in that thorough manner.

Hippocrates had no use for quackery or charms. He opposed, too, the endless classification and subdividing of diseases into categories. There was for him no special significance in a person being visited with any particular disease, hence epilepsy, the so-called "Sacred Disease" was to him no more a sign of the disfavour of the gods than any other kind of affliction. He favoured greatly the doctrine of contraries, if he was not its author. The theory was that if a person was hungry, he could be cured by food; if he suffered from repletion, then by evacuation, and so on. Medicine was chiefly the appropriate addition and subtraction, adding what was lacking, taking away what was redundant.

By his writings Hippocrates showed himself to be a skilful surgeon and he particularly displayed his knowledge of anatomy in the reduction of dislocations, his directions remaining the standard for centuries. Some part of his experience in this skill may have been gained in treating athletes engaged in the public games that made up such a great part of the Festivals in his day.

The reputation of Hippocrates was well established in his own lifetime and it continued without any lapse. Galen refers to him as the great Master, and said of his writings that they were not only concise but precise, though their very brevity on occasion led to some obscurities. The Romans almost venerated him and coins were minted both in Rome and in Cos, bearing a seated figure with his name on them. He practised in Athens, among other places, and the Athenians honoured him with citizenship, no mean acknowledgment of his worth. His death is said to have taken place in Larissa, Thessaly, but there is no certainty that he lived to be a centenarian, as was thought at one time.

"In those days"—translating freely from Littré—"questions were posed, going to the root of the matter, and the limits of the human mind were explored. This period (of Hippocrates) was the dawn of Medicine, and these records the first monument we possess." Truly the Age of Hippocrates, with the abundant talent that Greece then enjoyed, must have been an exciting time for men's minds: artists, playwrights, philosophers, whose names and works have lived for more than two millennia, and who still continue to inspire and entertain.

Even if in large measure the works of Hippocrates are unidentifiable—lost in part in the writings of his followers—his doctrines have persisted and his claim to fame as the Founder of Scientific Medicine is soundly based.

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The author is indebted to the Wellcome Historical Medical Library for providing the references on which the title illustration is based.

ANY BUSINESS QUESTIONS?

We have now moved our pharmacy to new premises. The move was costly, and I am now told that I may not be able to get the Inland Revenue to allow me to deduct the expenses from my profits. Is that correct?

REMOVAL expenses are not strictly speaking allowable expenses since they are not expenses wholly and exclusively laid out or incurred for the purpose of earning the profits and do not therefore fall within the test laid down by Lord Davey in the case of *Strong & Co. of Romney, Ltd., v. Woodifield*. Nevertheless the Inland Revenue normally allow the deduction of such expenses except when they are the result of business expansion, though the allowance is "by concession."

I am accepting some dates as locum tenens. *For the purpose of stamping my National Insurance Card should I consider myself as "self-employed" being a professional man in a fee-earning capacity or, to stamp in the usual way as "employed person"? So far as my inquiries go, chemists tell me that locums do not ask for a card to be stamped nor, as a general rule, do they ask for P.A.Y.E. deductions because of the extra work entailed to the proprietor. In my case most of the work will only be in odd days which is still more of a nuisance. It seems to me that as an "employed person" I could claim unemployment benefit if not working but as "self-employed" I could not do so.*

THERE seems little doubt, in the circumstances which you describe, that you would be regarded as self-employed. If, of course, you were to accept a temporary position for a longer period, say two or three months, different considerations might arise, but locum work on a very short-term basis does not give rise to any question of what is normally regarded as employment. That, of course, is why P.A.Y.E. deductions are not made. If you were an employee P.A.Y.E. would be applicable regardless of the short duration of the employment.

In recent years, our business has contracted, and we have a considerable amount of capital surplus to requirements. In the circumstances we should like to repay this to the members. Is that possible, without winding up the company?

A REDUCTION of capital is possible, but it is quite an involved process, and can give rise to fairly considerable costs. It is first necessary to consider the company's articles. If those do not authorise the reduction, they will require amendment by a special resolution. An extraordinary general meeting will be needed and special resolutions amending the articles (if necessary) and reducing the capital must be passed. A copy of the special resolutions must be filed within fifteen days. It is next necessary to apply to the court for sanction. Legal advice is essential for that procedure and indeed the whole scheme of reduction of capital should be carried through with legal assistance. An extract of the court order and minute must be filed with the Registrar of Companies and if the court directs, the words "and reduced" may require to be added to the name of the company. Finally, it will be necessary to amend any copies of the memorandum and articles in hand, and the particulars of nominal capital on unissued share certificates.

I am a director of a company operating a pharmacy. Each year during April or May I receive a notice of assessment showing a very large amount of income tax underpaid. I am quite unable to understand that, since all my remuneration is put on my P.A.Y.E. card, and tax paid, both in the case of my normal monthly pay and also my fees at the year end. I find it very worrying, though it never seems to cause any difficulty. I should be grateful if you could explain it to me.

DIRECTORS' remuneration accrues from day to day and the fees which you receive at the year end are related to the year as a whole. Now the Income Tax year ends on April 5, but most businesses have some other accounting date, and it is that which gives rise to the problem, because the fees are put on your P.A.Y.E. card in the year when they are paid, but part of them, no doubt, relate to the previous tax year. Perhaps the following example will help.

Assume a company's year ends on September 30, and a director receives £100 per month salary. Assume also that for the year to September 30, 1962, he received £500 fees. The following position would arise:—

Salary—income tax year 1961-62	12 x £100 =	£1,200
Fees (Paid October 1962)	½ x £500 =	£ 250
Total remuneration 1961-62		£1,450
Tax Card 1961-62		
Shows gross pay		£1,200
Tax Card 1962-63		
Shows gross pay—monthly salary		£1,200
Fees		£ 500
		£1,700

On that basis, there is an underpayment of tax on £250, in 1961-62, and an overpayment on the same sum in 1962-63. If now the bonus of £500 is repeated at the end of September 1963, the tax card will show the correct pay for the year, but part will relate to the previous year, and part paid in the next year will be omitted. There will therefore still be an underpayment at April 5 and that will continue while the payments continue in that way.

BRANCH EVENTS

SOUTH-EAST METROPOLITAN

Auto-immune Diseases

AT the third meeting in a series organised by the education committee of the South-east Metropolitan Branch of the Pharmaceutical Society held on March 19, DR. P. FREEDMAN (a consultant physician) gave an address on 'The Auto-immune Diseases." Sixty years ago, he said, experiments upon rats and rabbits had led to the concept of immunology. There followed recognition that hæmolytic anæmia was an auto-immune disease (that man could generate an antibody against his own tissues). Few diseases could definitely be called auto-immune: animals were required for the tests and absolute proof was difficult to establish. On therapeutic aspects, Dr. Freedman proposed the approaches of suppressing the antigen-antibody reaction and of using an immunological procedure (if the antigen were known). Adrenal steroids, used to inhibit antibody production and to allay tissue inflammation, were relatively weak agents.

SOUTH-EAST LONDON

Pædiatrics and the "G.P."

MEMBERS of the South-east Metropolitan Branch of the Pharmaceutical Society recently heard an address on "Pædiatrics in General Practice" given by DR. L. I. NORMAN. Pædiatrics, said the speaker, could be defined as the branch of medical science dealing with the study of childhood and diseases of children. In Britain, many bodies were responsible for children's health, but the general practitioner tried to see the child as a whole. About 10 per cent. of births, being illegitimate, passed out of the hands of the G.P. One in three pregnancies ended in miscarriage, and of legitimate children 1 per cent. were not educable and 10 per cent. subnormal. The normal child needed warmth, love, care and food. About 60 per cent. of children were born in hospital and advice on feeding would usually be based on a four-hourly routine. That babies did need feeding at about that interval was accepted, but the speaker believed they should be allowed to decide the time of feeding for themselves. The rest of the babies were born at home and advice would be tendered by the midwife. For feeding babies, Dr. Norman used ordinary milk, unboiled and undiluted; unboiled because there was no longer any tuberculosis in London's milk, and undiluted because one would not express normal mother's milk, add water, and give it back to the baby. To have a teat that always worked was essential: if milk was going in at all times there was no room for the baby to take in wind; if there was no wind there was no colic or gripe, and if the baby was properly fed nappy rash was rare. There were many opinions on when to wean, but the speaker had found that babies tolerated finely minced meat at an early age—the Americans started at three days. He had found that since concentrating on giving feeding advice to mothers, the amount of child illness in his practice had diminished considerably. Children got colds and snuffles; the chest conditions resulting from them were bronchitis, often satisfactorily dealt with by an expectorant, and (repeated attacks) with antibiotics. Tonsillitis sometimes led to an acute otitis media. In measles he offered an expectorant; mumps and chicken pox, aspirin. Whooping cough he had not seen for eight years; diphtheria he hoped never to see and of poliomyelitis, he had seen only one case since the last epidemic. Finally, in re-planning the child-health service the emphasis should be on keeping fit children fit.

COLCHESTER

Survey of New Drugs

AT a meeting of the Colchester and District Branch of the Pharmaceutical Society held in Colchester recently, DR. T. D. WHITTET (chief pharmacist, University College hospital, London), gave "A Survey of New Drugs." He discussed recent developments of the sulphonamides, saying that research had been aimed at producing drugs that were less toxic, more prolonged and more specific in action. Before the introduction of those compounds into medicine, 95 per cent. of cases of meningococcal meningitis had proved fatal, but now there was only a 5 per cent. mortality. Sulphamethoxydiazine, a long-acting derivative of sulphadiazine, gave high serum concentrations of the active form; although excreted by the kidneys, it was partially reabsorbed. The synthesis of the penicillanic acid nucleus had proved "a major breakthrough." The derivatives introduced as a result enabled many infective conditions to be effectively treated by oral administration, giving hope that even bacterial endocarditis might soon be treated by mouth. At his own hospital, erythromycin was considered the first reserve to penicillin. Other antibiotics with a similar range of activity, such as ristocetin and vancomycin, were kept for resistant cases. It was unfortunate that chloramphenicol had been shown to produce aplastic anæmia, because the incidence of other side effects was low. The tetracyclines showed little serious toxicity. A useful long-acting derivative was dimethylchlortetracycline. The discovery of antibiotics with anti-neoplastic activity had introduced a new form of treatment. The work was still in its infancy, but actinomycin had shown some activity in Hodgkin's disease, while sarcomycin and mitomycin had been shown active against large tumours. Until recently the suggestion that drugs might be effective antiviral agents had been scorned, but the discovery of interferon and other synthetic antiviral agents had opened a new sphere of treatment. Recently synthetic vaccines capable of producing immunity but completely free from pyrogenic activity had been introduced. As antihypertensive drugs, the ganglionic blocking agents had been useful, but they unfortunately had troublesome side effects and bretylium tosylate, guanethidine and methyldopa were effective without the same incidence of side effects. Hypertension was probably best treated by the use of two or more drugs, enabling each to be given in lower doses, thus reducing side effects. Useful adjuncts were diuretics, of which he gave a brief summary. A vote of thanks to the speaker was proposed by MR. T. A. SCHOFIELD.

ENFIELD

Some Legal Problems Explained

A MEETING of the Enfield Chemists' Association, held on March 18, was addressed by MR. J. R. DALE (one of the Pharmaceutical Society's inspectors). The sale and dispensing of medicines, said Mr. Dale, were affected by several statutes which needed coordinating and simplifying, and the Minister of Health had set up a working party to consider medicines legislation. Queries raised with inspectors showed that some chemists were confused by the labelling requirements for medicines prescribed over the counter. The Pharmacy and Poisons Act, 1933, required that, if any such medicine contained a poison and was not entered in the prescription book, a dose must be stated on the label, with the name of the poison, the quantity present and the S7 labelling: "Caution. It is dangerous to exceed the stated dose." However, if, on each occasion of dispensing details of the medicine and the name of the customer were entered in the prescription book, then only the directions and a prescription book reference were needed. The name and address of the chemist must, of course, appear on all labels. The Pharmacy and Medicines Act, 1941, required the formula to be declared on all medicines recommended, orally or in writing, for the treatment of a human ailment. If, however, no poison were present, and the medicine were made up specifically for one person's needs, then no declaration was required. The fourth schedule to the Poison Rules laid down no directions for storing poisons, and therefore only those poisons in S4A (which were also S1) required special storage. In practice, all "prescription only" preparations should be kept away from the public to avoid their inadvertent sale. It was almost impossible for the busy pharmacist to remember under which heading every proprietary came, so that an up-to-date work of reference was essential. Apart from legal requirements, pharmacists must comply with professional standards. They should not advertise on bus tickets, litter bins or other undignified media. The description "dispensing chemist" should not be used in any advertisement, and the practice of giving trading stamps was undesirable. The title "pharmaceutical chemist" was a description comparable to "medical practitioner," and should not be abbreviated to "Ph.C." To use "M.P.S., Ph.C." implied two qualifications. In conclusion, Mr. Dale said that the impression the public had of pharmacy was that which they received from their local chemist's shop: a professional approach to pharmacy could only enhance its reputation in their eyes.

Pest Control in Britain, 1963

THE PROBLEM AND HOW IT IS BEING TACKLED

ABOUT 170 delegates, including twenty from twelve overseas countries, attended the first British Pest Control Conference organised by the Industrial Pest Control Association, Oxford, April 1-3 (see also *C. & D.*, April 6, p. 358). The conference was fortuitously timely in view of current public interest in the problems and possible hazards associated with the use of pesticides.

First speaker was DR. T. M. MORGAN (former medical officer, Port of London Authority) who suggested that the eradication of rodents rather than their control, should be the aim; and that buildings, like ships, might well be rat-proofed. Pest-control companies should campaign for rodent-proofing of industrial, agricultural, domestic and other premises. Replying to a question, Dr. Morgan held that the implementation of the Animals (Cruel Poisons) Act might seriously retard progress in pest control. He hoped it would not interfere with "certain vital poisons" now in use (sodium fluoroacetate among them).

Warfarin "Resistance"

Presenting the second paper, which was prepared by DR. E. W. BENTLEY (Ministry of Agriculture, Fisheries and Food), the author thought that undue publicity had been given to "resistance" of rats to warfarin, the most widely used rodenticide. Such instances were few. The Ministry had uncovered only three or four cases of unusually high resistance, with no proof that it was due to a process of selection. However, the Ministry's Control Division was carrying out research on the possibility of resistant populations developing by reason of inadequate control measures.

German experience had shown that complete rat disinfestation of towns was possible, and similar efforts would undoubtedly be made in Britain. Improved rodenticides would give a great fillip to pest control. Short of better long-acting poisons, new ways of utilising existing compounds (such as the recent introduction of combinations of warfarin and sulphaquinoxaline (see *C. & D.*, January 26, p. 81) offered promise for the future. Urban "deratting" operations had been much improved in recent years by the use of sodium fluoroacetate and fluoroacetamide as direct poisons. Those chemicals had killed over 90 per cent. of the rat population of sewers in a single treatment, and complete clearance in two or three treatments in quick succession.

In discussion, MR. G. H. EGLETON (Verminex, Ltd.), queried the banning of red squill, "so useful on farmland," in view of the reports of resistance to the anticoagulants. DR. BENTLEY answered that the Ministry had decided that red squill had no advantages over other poisons but the matter was still *sub judice*. MR. C. WHITEHEAD asked if any work was being done on biological control of rodents. He cited work in progress in Pennsylvania, where gametocides (sterilants) were being used with success in controlling the red-winged blackbird. DR. BENTLEY knew of no such work in Britain, but considered that the use of gametocides might be a way to control the expansion of coypus. Perhaps a virus specifically lethal to rats might be isolated. DR. F. P. COYNE (Plant Protection, Ltd.), queried whether the use of red squill was more cruel than the destruction by "internal haemorrhage and slow starvation" achieved with anticoagulants. DR. BENTLEY: "I have no convincing evidence that any poison is cruel to any animal except man."

Opening the second session MR. MILES PRICE (Rentokil Laboratories, Ltd.) described recent work in preventing damage to buildings by birds. The accumulation of vast quantities of droppings on public buildings (recently 50 tons of bird excrement had had to be removed from the roof of the Foreign Office) involved Government departments, institutions and commercial undertakings in heavy costs for cleaning and maintenance. Many methods of discouraging birds from roosting had been tried with limited degrees of success, including the use (recently sanctioned by the Ministry of Agriculture for the control of feral pigeons) of baits narcotised with alpha chloralose. The method was laborious, however, and suitable for only a few sites.

Tactile Repellents

Mr. Price believed the most successful method was the application of strips of soft plastic gel—made from a combination of synthetic resins—to the leading edges of perching sites. The gel acted as a "tactile repellent"; birds attempted to alight on it but did not settle, quickly taking off again. After some hours the birds abandoned the treated ledges and sought other sites on which to roost. Eventually the flock's roosting pattern was broken and the treated building remained free from birds. The National Gallery remained clear for two and a half years. The material used, though soft, was not sticky and did not entangle the birds. The method was consequently humane and did not arouse public opposition.

Asked if the substance was suitable for birds on fruit trees, MR. PRICE said that water emulsions of the material had been issued for the purpose but no trials had been completed so far. DR. E. R. GOODLIFFE (Ratsouris, Ltd.) considered the technique "somewhat immoral" and postulated the ultimate absurdity of the bird populations flying around in ever-decreasing circles. He suggested the need for "some national plan on the problem."

In the first afternoon session, MR. D. S. PAPWORTH (a Ministry of Agriculture official) spoke on the implications of the notification and clearance scheme—a voluntary arrangement between the Ministry and pesticide manufacturers to ensure that products are administered without danger to the public or to beneficial wild life. The onus of notifying a new chemical, or a new use or formulation of an established chemical, was placed firmly on the shoulders of the industry. Information had to be given to the Government to prove that the pesticide was safe when used in the prescribed manner. If Government experts were satisfield, then a dossier was issued recommending the precautions to be taken to ensure its safe use. The scheme had been criticised because it was *voluntary*. But of about 14-15,000 farm accidents annually in England and Wales, less than five were caused by pesticides.

MR. J. M. HOLBORN (Cooper Technical Bureau) spoke next on the control of grain pests by contact insecticides. The life of malathion, a valuable insecticide for control of grain pests, could be improved by dissolving it in certain resins. The malathion/resin mixture was ground to a fine powder, wetters added, and the product used as a conventional wettable powder.

In "Current Practice in the Fumigation of Grain" MR. W. BURNS BROWN (Pest Infestation Laboratory, Slough) said it was difficult to see how mixtures of ethylene dibromide and methyl bromide as fumigant (as recently recommended by Indian workers) could be effective—the compounds were so dissimilar in their physical properties. Carbon tetrachloride penetrated much better than ethylene dibromide, and, combined with methyl chloride, had given satisfactory results in Scotland.

Problems of fly (particularly housefly) control were discussed by MR. A. A. GREEN (Pest Infestation Laboratory, Slough), who said that the primary weapon must be hygiene, with insecticides as an ancillary line of defence. Modern pest-control companies should function as consultants — in the full sense of the word. If the growth of insecticide resistance was not to outstrip the development of new chemicals, insecticides must be used only after reasonable efforts had been made to eradicate the source of breeding.

In reply to questions, Mr. Green said that work in the United States had shown that resistance to organo-phosphorous insecticides had developed as a direct result of poor sanitation. Flies resistant to hydrocarbon insecticides could now be controlled for periods of up to twelve weeks by using a DDT synergist such as N,N-di-*n*-butyl-*p*-chlorobenzene sulphonamide. Other lines of counter-attack against resistant species included the use of chemosterilants (0·25 to 1 per cent. Apholate in bait gave good control in both sexes); mechanical methods such as "air curtains," electric grids and fluorescent lighting strips (against night-flying midges); and one biological method of control (the use of *Bacillus thuringiensis* fed to birds), producing droppings not infestable by flies.

Industrial Weed Control

The term "microsymposium" was coined to describe the presentation and discussion of a group of papers on industrial weed control that occupied

the final afternoon of the Conference.

MR. R. F. NORMAN (Fisons Farmwork, Ltd.) considered how industrial activity might benefit by the removal of unwanted plant growth. He believed regular annual treatments on a contract basis gave better and more economical results than did attempts to provide a once-and-for-all clearance.

DR. G. W. IVENS (Weed Research Organisation, Oxford), discussing "The Choice of Chemicals for Use in Industrial Weed Control," said that only sodium chlorate and boron compounds of the inorganic weed-killers were now used. Synthetic organic weed-killers that persisted in the soil and exerted a residual herbicidal action found widespread application, especially substituted ureas such as monuron and diuron and triazines, such as simazine and atrazine. Where quick "burning off" of the vegetation was desirable there was experimental evidence that residual herbicides could be successfully used in combination with the new contact weed-killer, paraquat. Hormone weed-killers such as MCPA, 2,4-D and 2,4,5-T were used for selective control of broad-leaved and woody vegetation. When grasses were a problem TCA, dalapon and amino-triazole were useful; maleic hydrazide was employed against grasses to suppress their growth, rather than to destroy them. In "The Problems and Hazards of Industrial Weed Control" DR. E. R. GOODLIFFE (Ratsouris, Ltd.) said the first pitfall was in protecting workers from any toxic chemicals by providing appropriate clothing. Chemical supplies must be kept out of reach of unauthorised people, including trespassers and "marauding children." Used containers had to be safely disposed of. Risks to wildlife must be guarded against and "drift" of weed-killers on to neighbouring property should be avoided.

LABORATORY EQUIPMENT

London Exhibition of Apparatus and Materials

THE fourth Laboratory Apparatus and Materials Exhibition was held in London, recently. Sponsored for the first time by the Scientific Instrument Manufacturers' Association, the exhibition had nearly twice the previous year's number of exhibitors.

Improved Designs

Many manufacturers had concentrated on improving existing equipment, but there was no lack of new ideas, many of them of pharmaceutical interest. MAY & BAKER, LTD., Dagenham, Essex, showed their new Rota range of indicator papers, including litmus, universal and narrower-range papers, in plastic "dispensers" combining economy and convenience in use with protection of contents. The same system, with the *p*H range 0·5–13 covered by one three-reel pack, was seen in the *p*H box by E. Merck, A.G., shown by the company's U.K. distributors, ANDERMAN & CO., LTD., 87 Tooley Street, London, S.E.1.

The display by BAIRD & TATLOCK (LONDON), LTD., Freshwater Road, Chadwell Heath, Essex, included the Tecam fluidised sand bath; Haake viscometers, B.T.C. metal block heater and Optica model CF4R spectrophotometer. The new junior water baths from GRANT INSTRUMENTS (CAMBRIDGE), LTD., Barrington, Cambridge, are lined in polypropylene and have a temperature range 20–90° C. JONES & STEVENS, LTD., P.O. Box 35, Eastern By-pass, Littlemore, Oxford, showed their range of laboratory stirrers, including a new model RZR II with a swivel stirring arm. A sealed-unit laboratory mixer-emulsifier for use on highly infected materials was shown by SILVERSON MACHINES, LTD., 55 Tower Bridge Road, London, S.E.1.

CHARLES AUSTEN PUMPS, LTD., Petersham Works, High Road, Byfleet, Surrey, showed additions to their range of laboratory pumps, including the new C25, whose components are produced in a variety of plastic materials according to the user's requirements. The Hymatic 400 and 100 automatic cleaning machines for laboratory glassware shown by DAWSON BROS., LTD., Ventnor works, Gomersal, nr. Leeds, employ a moving jet arrangement that permits a reduction in the number of jets, with consequent pressure increase. SHANDON SCIENTIFIC CO., LTD., 65 Pound Lane, London, N.W.10, showed several developments in chromatography and electrophoresis, including temperature programming facilities with the FB4 ionisation chromatograph. Chromatanks designed with moulded glass fittings, and the Unikit, for teaching both techniques. GRIFFIN & GEORGE, LTD., Ealing Road, Alperton, Middlesex, showed a new range of Griffin-Christ centrifuges and additions to the Griffin-Grundy range of laboratory ovens.

Demineralisers

The Deminrolit mark 7, latest portable demineraliser from the PERMUTIT CO., LTD., Permutit House, Gunnersbury Avenue, London, W.4, is capable of providing twelve gall. of Purified Water, B.P., in one hour. Examples of the Zeo-Karb and De-Acidite ion-exchange materials used in the units were on show. Sephadex, a three-dimensional cross-linked dextran, used as a gel filtration medium, was shown by PHARMACIA (GREAT BRITAIN), LTD., Sinclair House, The Avenue, London, W.13. By the introduction of ionic groups, an ion-exchange material, DEAE-Sephadex, has been produced. THE BRITISH DRUG HOUSES, LTD., laboratory chemicals division, Poole, Dorset, showed items from their range of biochemical materials and two new publications: a laboratory first-aid chart and a booklet, "Flash Points."

ISOPAD, LTD., Barnet By-pass, Boreham Wood, Herts, exhibited their standard range of laboratory heating mantles and Isotapes, including a new ¾ in. width. An earthed, flexible heating mantle was featured by ELECTROTHERMAL ENGINEERING, LTD., 270 Neville Road, London, E.7. W. WATSON & SONS, LTD., Barnet, Herts, exhibited several additions to their optical ranges, including the Service III student microscope; Watson 5:1 "zoom" stereoscopic microscope; and Watson Land camera enabling examination of positive photomicrographs within 10 sec. of exposure. The model Q01 decimicro balance shown by L. OERTLING, LTD., Cray Valley Works, Orpington, Kent, differs from previous designs in its type by having a readily replaceable quartz beam stated to require little skill in fitting. The model has a capacity of 250 mgm. and a precision of 0·08 microgm. Automatic ice-making machines displayed by AUTO-ICE, LTD., 9 Curzon Street, London, W.1, included models for cubes or flakes with production rates of 50–900 lb. in twenty-four hours.

A new plastic coating, Pai-Kor, for the protection of surfaces from acid/alkali and atmospheric corrosion was demonstrated by TURNER & BRAUN, LTD., Punch Street, Bolton, Lancs. The coating, a thermoplastic-based resin, may be applied cold by brush, spray or dip. The same company showed PVC fans for removing corrosive gases. ARNOLD R. HORWELL, LTD., 17 Cricklewood Broadway, London, N.W.2, distributors of Dade diagnostic reagents and calibrated glassware, featured the Dade-Stat plastic, disposable tray containing all necessary ingredients for rapid laboratory determination of bacterial susceptibility to antibiotic or chemotherapeutic agents.

On April 4, the Exhibition was the scene for the official handing over of a model AT3 Erweka tester to Chelsea College of Science and Technology. The presentation was made to Dr. A. Beckett (head of the school of pharmacy) at the stand of H.M.C. THE SCIENTIFIC INSTRUMENT CENTRE, 52 Gloucester Place, London, W.1, by Herr E. Schmidt (Erweka-Apparatebau, G.m.b.H.). U.K. agents for Erweka are Industrial Plastics, Ltd., 93 Regent Street, London, W.1. The equipment is being used at the school for research into the action of sustained-release tablets and capsules.

INSTRUMENTS AND APPARATUS

Manufacturing Agreement.—Arrangements have recently been concluded to enable W. G. Pye & Co., Ltd., Granta Works, York Street, Cambridge, to manufacture in England *p*H electrodes to the specification of Dr. Werner Ingold, Zurich, Switzerland. On the Continent, Ingold electrodes are widely known for their robustness and excellent *p*H measuring characteristics — more especially because there is a particular Ingold electrode for every purpose, no matter how specialised.

Refrigerant Leak Detector.—The gas-instrumentation division of Newmark Instruments, Ltd., Lesbourne Road, Reigate, Surrey, are marketing under licence from a Swiss manufacturer, the Rilo detector, an adjustable leak detector for halogen refrigerants such as Freon, Frigen, Arcton, etc. The instrument, designed specifically for its purpose, is understood to give visual and audible indications of leaks as small as 0·2 oz. per year. Weighing approximately 10 lb., the detector operates off electricity supplies of either 110 or 220 volts A.C., 50 or 60 cycles.

Shop Fittings on Show

CATERING FOR THE NEEDS OF THE PHARMACIST

SHOPSHOW 63, described by the organisers as the "retailer's own exhibition," and held at Olympia, London, May 13–17, provided a comprehensive display of equipment and ideas ranging from price markers and packaging material to shelving and self-service fixtures. The present trend among retail pharmacists towards modernising their premises was catered for by a number of exhibitors, even to showing, in an arcade of shops, a complete pharmacy with stock.

Exhibitors

COUNTERPOINT STORE EQUIPMENT, LTD., Rochford Road, Prince Avenue, Southend-on-Sea, Essex, who were responsible for fitting out the pharmacy at Hounslow under the National Pharmaceutical Union's National Pharmacy Modernisation Project (see *C. & D.*, June 2, 1962, p. 594), showed the units used in the remodelled pharmacy.

GILLETTE SAFETY RAZOR CO., LTD., Great West Road, Isleworth, Middlesex, showed stands they have made available for displaying and selling Gillette products latest among them being a "Twist-feed" merchandiser.

How to display a maximum quantity of the self-selection goods normally offered by pharmacists, and to do it attractively within a restricted area, was demonstrated by BULMAN (STORE EQUIPMENT), LTD., 111 The Promenade, Cheltenham, Glos. Messrs. Bulman had constructed the model pharmacy in the "shop arcade," using their Pioneer bracketless equipment offering a choice of three positions for each shelf; the units, which are of metal, are free-standing. The reconstructed pharmacy contained a small dispensary complete with sink unit, poisons cupboards, etc. Stocks in the pharmacy had been provided by UNICHEM, LTD., 3 Broadwater Road, London, S.W.17, who also arranged the displays.

Shelving layouts specifically designed for a variety of retail outlets, including chemists' goods, were exhibited by REMPLOY, LTD., Remploy House, 415 Edgware Road, London, N.W.2. The shelving, in a natural colour and polished finish, was from the company's range of standard Lundia hardwood shelving and Rembrac shelf supports. Exhibited for the first time was the Fullspace storage system, claimed to save 57 per cent. of space over normal systems. The shelving runs on ball bearings over fixed steel parallel guides, thus eliminating the need for gangways between each bay. The Fullspace shelving may be pushed together and locked in position, making security another of its advantages and stock is kept almost dust-free.

NATIONAL CASH REGISTER CO., LTD., 206 Marylebone Road, London, N.W.1, showed a wide range of cash registers, including their latest low-cost Countamatic (class 96) and D100 machines, both designed and manufactured in the company's Scottish factories. The class 96 is electrically operated, quiet in use and designed for retailers who prefer the "low line"; it is equipped with fourteen transaction keys, including nine identification keys for sales classification. The cabinet is of rust-proof plastic material in a two-tone finish and claimed virtually unbreakable and easy to clean. Feature of the D100 is its unusually high adding capacity (a halfpenny short of £100,000). For the small retailer, that means he can allow his register total to accumulate over a much greater period of time, while providing an immediate sales turnover figure at any time by merely "raising the cabinet lid."

The use of tubular net to produce retail packs was demonstrated by A.W.N., LTD., Britannica House, Waltham Cross, Herts, who showed an electronically controlled machine which fed predetermined quantities of items from a large hopper into tubular net sealed by means of a metal clip.

AUTOMATIC DOORS, LTD., 1 Fitzroy Street, London, W.1, introduced a new form of sliding door, that may be used as a normal swing door or, in seconds, neatly packed away to provide a full opening.

W. & T. AVERY, LTD., Soho Foundry, Birmingham, had on their stand a penny-in-the-slot personal weighing machine in modern styling.

A two-tier unit of instantly adjustable timber shelving could be examined on the stand of BRUYNZEEL WOOD PRODUCTS CO., LTD., Oxford Road, Denham, Middlesex.

CASH MACHINES, LTD., 36 Gowers Walk, London, E.1, demonstrated label printing machines.

COLUMBUS-DIXON, LTD., Wembley, Middlesex, had on show many items of floor cleaning equipment.

In one corner of an exhibit staged by CHROME MESH EQUIPMENT, LTD., Garth Road, Lower Morden, Surrey, was an all-metal self-selection display unit with glass binning carrying a display of popular beauty preparations; its pegboard back facilitates changes in display arrangement.

Moulded plastic imitation wrought-iron screens for decorative work were to be seen on the stand of the DALEBROOK DISPLAY CO., LTD., 2 Thorpebank Road, London, W.12.

One of the E. Plan unit fittings finished in light oak by EUSTACE & PARTNERS, LTD., Alliance Works, Western Avenue, London, W.3, carried a small display of cameras and films, and showed the adaptability of the fitting, which is assembled using only a screw-driver.

FALCONCRAFT, LTD., 89 Hainault Road, Romford, Essex, offered new designs of ticket beading for self-selection units, and an associated company FALCONCRAFT (ALUMINIUM), LTD., demonstrated the use of special aluminium and plastic sections for shop facias to reduce maintenance costs. One section of the exhibit showed the use of an anodised aluminium facia section fitted complete with applied plastic letters.

The flexibility of the L.B. shelving system, manufactured by S. GREENMAN, LTD., 280 Old Street, London, E.C.1, was emphasised by the use of few component parts to meet a variety of requirements.

Scentinel air freshener and plastic products were to be seen on the stand of NEW HYGIENE, LTD., 266 Holloway Road, London, N.7.

NORMAN PENDRED & CO., LTD., 11 Gladiator Street, London, S.E.23, demonstrated the wide range of their activities with displays of price tickets, conference badges, point-of-sale display material, dials, shelf notices for use with self-selection fittings.

In a corner of the display by FREDERICK SAGE & CO., LTD., Holborn Hall, Gray's Inn Road, London, W.C.1, was a unit that combined a cosmetic products showcase with a self-selection counter, thus offering greater security for expensive items.

A small unit with canopy lighting and based on a five-way adjustable bracket system, was offered by STORAX, LTD., Tower Works, Northfleet, Kent. The shelving was finished in two pleasant shades of blue.

Dump display bins were a feature on the stand of THIRSK EQUIPMENT CO., LTD., 741 Garratt Lane, London, S.W.17.

The Tickoply Mini hand tool (which prints and fixes a label in a single operation) was shown by TICKOPRES, LTD., 7 Old Bailey, London, E.C.4. For larger organisations were offered other models from the company's range, marking retail prices, cost prices and stock data on self-adhesive or gum labels or pin-on tickets.

A neat little device, the Etifix, that can print any kind of ticket with four lines of information, and on which each type band is quickly altered by turning a small rubber roller, was demonstrated by SIMPSON LABEL CO., LTD., Bellevue Works, Hopetoun Street, Edinburgh. The device is operated like a rubber stamp, and a small jig ensures accurate positioning of type on the label. Larger marking machines such as the Famox and the Rapitag were also on show.

Table-top dry printers and applicators, using plastic materials, were to be found on the stand of LABEL PROCESSES, LTD., Shouldham House, Shouldham Street, London, W.1. No inks are used in the printing processes, in which colours are applied by dies from reel-fed pigmented film to self-adhesive label material. The applicators, which are automatic or semi-automatic, apply labels to a wide range of containers.

VERSATILE FITTINGS, LTD., 10 New Fetter Lane, London, E.C.4, showed the latest addition to the range of Vizusell components, including the new AH shelf brackets that permit shelves of different width or slope to butt on the same uprights. The brackets may be slanted up or down, and the shelving is of either plastic-covered steel or timber.

JOHN WILKINS EQUIPMENT, LTD., 214 St. John Street, London, E.C.1, were demonstrating the use of spring-loaded Power poles as uprights, as well as diffused panel lighting for display purposes.

Retail Pharmacies Conference

AT the conference under the title "The Chemist in the Retail Revolution" held on May 16, Messrs. A. G. Trotman and G. S. Knight (training, chemist sales, managers, respectively, of Beecham Foods, Ltd.) spoke on "The Chemist versus the Rest," and Mr. R. Towsey (modern merchandising methods

department, National Cash Register Co., Ltd.) on "The Modern Approach to Retailing," and a film, "Prescription for Profit" (*C. & D.*, May 25, p. 573) was shown.

MR. KNIGHT defined "the rest" as including grocers, hardware stores, cosmetic specialists, departmental stores, fancy goods shops and photographic shops, which were together responsible, he said, for 44·1 per cent. of all retail trade turnover, the chemists' share being 3·9 per cent. Of that 3·9 per cent., 57·9 per cent. was achieved by independent chemists, the remainder going to multiples and Co-operative chemists. He wondered if the public image of the chemist was of "a shop where the chemist barricades himself, his staff and his stock behind heavy mahogany counters, showcases and screens." Many chemists now held the theory that the time had arrived when much tradition should be swept aside and replaced by modern ideas. He quoted a recent letter in THE CHEMIST AND DRUGGIST (*C. & D.*, April 6, p. 368), in which the correspondent stated that "a completely new, real, practical public pharmaceutical image is called for," and referred to an investigation carried out by A. C. Nielsen Co., Ltd., on shop modernisation (a reasonably complete refit with new lighting and counters, usually accompanied by a frontage change). Messrs. Nielsen, he said, found that 10 per cent. of shops had modernised during the 1960-61 period of their investigation, and they showed an average increase in turnover of 17 per cent., against an average annual 7 per cent. increase for all chemists during the period. Multiples showed more pronounced gains than independents from modernisations, owing to their greater working space, wider merchandising experience and more capital to invest in new fittings. Counter sales had expanded by 21 per cent., National Health Service receipts by 15 per cent. Mr. Knight then quoted from a leader in THE CHEMIST AND DRUGGIST (February 23, p. 210) which advocated groups of pharmacists getting together to exchange details of their success as well as their difficulties in running their businesses for "no other form of commercial activity seems better placed to share experiences, or more likely to benefit from sharing." The fall in the number of N.H.S. prescriptions could well affect the number of visits by the public to the pharmacy, which in turn reduced the opportunities for impulse buying. Multiples obtained only one-quarter of their turnover from N.H.S.; independents, one-third. The multiples' 23·5 per cent. of chemist shops and 31·6 per cent. of dispensing business added strength to the case for a dynamic policy of shop modernisation by independent chemists.

Mr. Towsey urged his hearers not to over-emphasise the importance of the counter. He had seen two pharmacies that had no counter, yet whose business had improved substantially since dropping it as part of layout changes. He did not necessarily advocate complete abolition of the counter, but said it should be seen in perspective. What was essential was to bring the customer close to the goods.

At question time a pharmacist suggested that men did not like the self-service approach. Another, however, said he had found that, by placing a unit of men's toiletries near the door, he had quickly converted his men customers to the idea. The problem whether to stock articles in small demand was posed, and it was suggested that some such goods had to be carried as a service to customers, an argument quickly contested by the platform, which maintained that a slow-moving line was unprofitable.

PHOTOGRAPHIC NOTES

New Splicing Tape.—Sellotape Products, Ltd., 75 Farringdon Street, London, E.C.4, are marketing a new polyester silicone splicing tape claimed to simplify and speed up cine film joining and not to ooze or deteriorate with age.

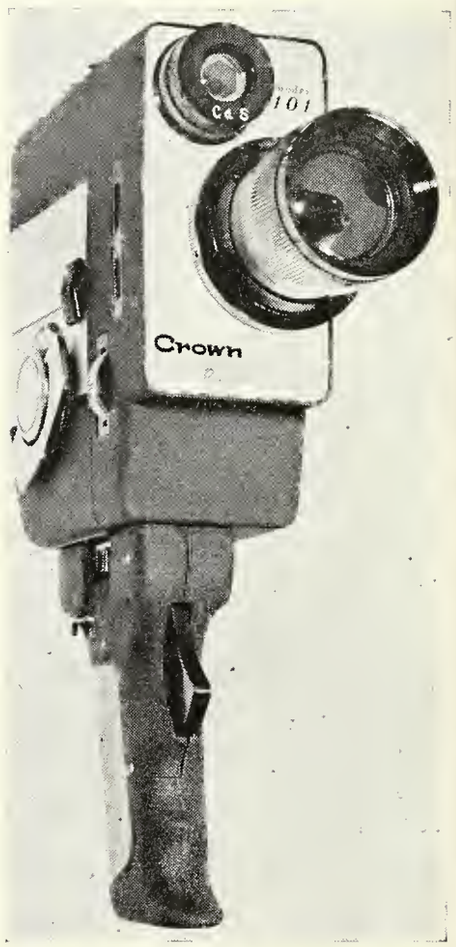
Stolen Cameras.—The following have been stolen from the New Cavendish Street, London, showroom of the Pullin Optical Co., Ltd.: 4 x 5 in. Super Technika Linhof camera, body no. 70792, with Apo Lanthar lens no. 5159448; Konica F.S. reflex camera, body no. 358442, with Hexanon lens no. 9527039; Konica F.S. reflex camera, body only, no. 3591807.

Protection for Transparencies.—Damage to colour transparencies during handling and viewing may now be eliminated by the use of transparent or translucent protective sleeves produced by Secol, Ltd., 44A Station Road, North Harrow, Middlesex. Available in all film sizes, the sleeves are made of "a virtually indestructable plastic that will not crack, tear or burn." Messrs. Secol state that transparencies so protected may be used with projectors and viewers without loss of clarity or brilliance. The sleeves have the additional advantage of giving bright, even screening with any light source. They are sold in packets of ten.

New Mounting and Printing Services.—On May 1, a mounting service for 18 x 24-mm. transparencies became available from Kodak, Ltd., Kingsway, London, W.C.2. Kodachrome or Ektachrome films for processing and mounting are dispatched to the Kodak colour processing division at Hemel Hempstead. A mounting charge only is asked for Kodachrome films, processing being included in the original purchase price for films bought in this country. The Ektachrome customer is charged for both processing and mounting. From May 1 also, Ektachrome roll films 120 and 620 exposed in cameras giving twelve 2¼-in. sq. transparencies have been mounted unless otherwise instructed. 2¼ x 2¼ in. transparencies sent to Kodak, Ltd. for printing, should be mounted (any standard 2¾ x 2¾ in. mount accepted).

"Professional" Colour Film for Amateurs.—Anscochrome colour reversal film is now available for the first time to British amateur photographers. David Williams (Ciné Equipment), Ltd., 5 Glasshouse Yard, London, E.C., have signed an agreement with Ansco, Ltd., for the distribution of Ansco film in the United Kingdom and initial stocks have been dispatched to retailers. Processing in the United Kingdom is being handled by the Colour Centre, in order to guarantee quality. Sample strips are being flown back daily to Ansco's American laboratories for detailed checking. The film is being sold either "process-paid," or, for the new Easiloaders, without processing and in conjunction with home processing kits. The speed of Anscochrome reversal film is given as 40 A.S.A.—The Easiloader contains 8½ metres of 35 mm. Anscochrome (daylight type), notched and "tongued," to provide eight, twenty-exposure lengths. Magazines can be loaded in room lighting because the loader is light-tight and the film is not removed in bulk.

Power "Zoom" Reflex. — The new Crown power "zoom" automatic ciné camera (model 101) has a fully coupled cadmium sulphide exposure meter with manual over-ride. Other specifications are an f/1·8 lens with variable focal length (9·5 to 30 mm.); geared footage



indicator with audible warning signal, single-lens reflex view-finder, 16 frames per second and single shots, and spring motor giving a continuous run of 12½ ft. of film. Manufacturers are Copycat (Photographic), Ltd., Greycoat Place, London, S.W.1, who also announce the arrival of their model 501 automatic "zoom" camera. Features are a fully coupled exposure meter with manual over-ride, four speeds (12, 16, 24 and 32 f.p.s.) and single shot. The view-finder is of single-lens reflex type with adjustable eye-piece. The f/1·8 lens has a variable focal length (12 to 32 mm.).

This is the Vi-Daylin moment. It comes once a day and there is absolutely no mistaking how children feel about it. It is a treat that becomes a habit. A habit that assures accepted dosage. Yes children of all ages love Vi-Daylin.

VI-DAYLIN REGD.

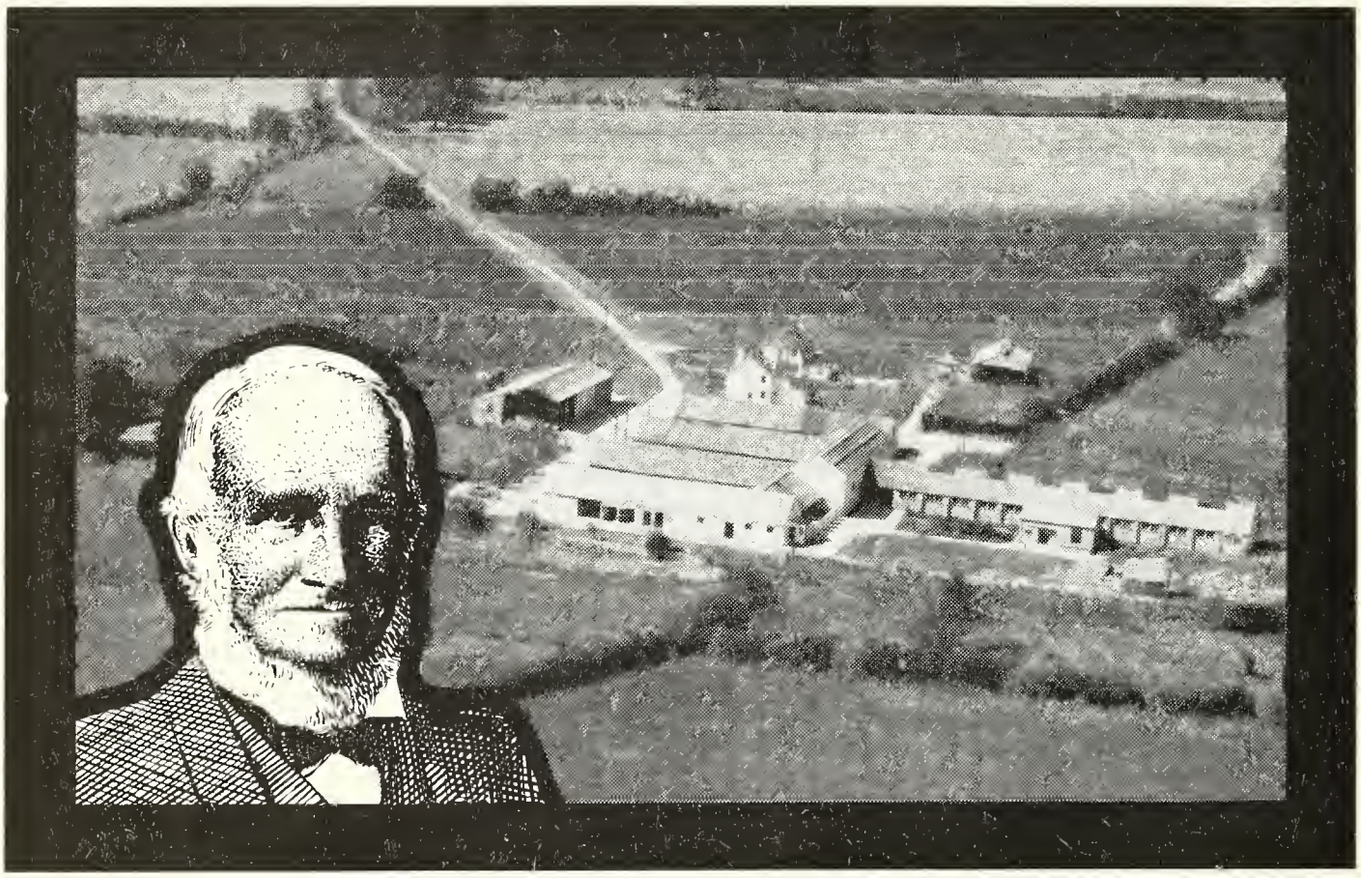
Vitamin Tonic

Each daily 5 c.c. teaspoonful of Vi-Daylin contains Vitamin A, 3,000 I.U., Vitamin D B.P., 400 I.U., Aneurine Hydrochloride B.P., 1.5 mg., Riboflavine B.P., 1.2 mg., Ascorbic Acid B.P., 50 mg., Nicotinamide 10 mg., Pyridoxine Hydrochloride 1.0 mg.



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BORN 1846...
and still growing fast



Ransom's drug-growing farm at St. Ives, Huntingdonshire. Inset: William Ransom, founder of the Company

Ever since 1846, when William Ransom started his drug farm at Hitchin, the Company has specialized in cultivating medicinal plants. During that time, drugs and galenicals from Ransom's farm and factory have been produced in ever-growing dimensions. Today, in whatever part of the world they are found, Ransom's drugs and galenicals set the standard in quality, dependability and performance. Let Ransoms quote you when you're next in the market for:

EXTRACTS · TINCTURES · ESSENTIAL OILS · RESINS · OLEO-RESINS · CHLOROPHYLL ETC

Established 1846

WILLIAM RANSOM & SON LTD
Hitchin, Hertfordshire

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 5: In order to encourage the collection of CASCARA BARK, the collecting centres in the United States were reported to be offering higher rates of pay. The action has made shipment offers as much as 30s. per cwt. dearer and spot holders of old peel have marked up their stocks accordingly.

Cape ALOES were still nominal for shipment with spot primes at 200s. per cwt. and extra primes at 210s. Portuguese ERGOT was easier by threepence per lb. in both positions. The tight supply situation of IPECACUANHA was unrelieved during the week. Chinese MENTHOL was slightly cheaper on the spot, although Brazilian maintained its firmer tone. Among the items for which new quotations are awaited by the market were white SQUILL, SARSAPARILLA, CINNAMON QUILLS and COLOCYNTH PULP. Newly received were offers of PODOPHYLLUM EMODI. No. 1 KARAYA GUM was nominal, while No. 2 was advanced by 45s. per cwt. for spot supplies. Refined SUGAR prices were marked down sharply.

Chinese ANISE OIL was threepence per lb. easier for shipment, while Formosan CITRONELLA dropped sharply to 12s. 9d. per lb., c.i.f., from 14s. in the previous week.

OLIVE OIL prices are now below the peak rates ruling last month and a further fall is expected, although the size and timing is problematical. The Spanish government are expected to meet representatives of the olive oil industry and growers some time this month to discuss if, and by how much, the export tax on the oil might be reduced. French and Tunisian prices would be expected to follow any lead set by Spain. Meanwhile, Algeria and Greece are not offering.

Pharmaceutical Chemicals

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., is 1s. 1d. ACID TARTRATE, B.P., 1 kilo, 7½d.; 500 gm., 9d.

ALOIN. — Micro-crystalline, 14-lb. lots, 34s. per lb.

AMIDOPYRIN. — Per lb. 16s. 8d. for 5-cwt. lots; 1-cwt., 17s. 5d.

AMYLOBARBITONE. — B.P.C. is 76s. per kilo for less than 25-kilo lots and 71s. 6d. over 25 kilos. SODIUM is 10s. per kilo more.

ARECOLINE.—ALKALOID, 51s. per oz.

ATROPINE. — Per oz. for 16-oz. lots ALKALOID and METHONITRATE, 39s.; METHYLBROMIDE, 38s. 6d.; SULPHATE, 34s. (1,181s. for 1-kilo).

BARBITONE. — SODIUM derivative is 56s. 9d. per kilo for less than 25-kilo lots.

BROMIDES.—Crystals (per lb.):—

	1 cwt.	5 cwt.
	s. d.	s. d.
POTASSIUM	2 6	2 5
SODIUM	2 6	2 5
AMMONIUM	2 10	2 8½

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

BRUCINE. — Per oz. ALKALOID is 5s. and SULPHATE, 4s.

BUTOBARBITONE. — B.P.C., 80s. per kilo for 25-kilo lots and over.

CHLOROPHYLL. — Water-soluble, 100 per cent. (medicinal grade), 280s. per lb.; oil soluble, 25s. per lb.

COCAINE. — 16-oz. lots HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE. — 25 kilos and over: B.P., 70s. 6d. per kilo. CALCIUM, 77s. 6d. per kilo.

DIGOXIN.—100-gm. lots, 68s. per gm.

DIPHENAN. — From 55s. 3d. (56-lb.), to 63s. per lb.

ERGOMETRINE.—MALEATE, B.P., 144s. per gm. for 20-gm. lots; TARTRATE, 30s. per gm. for 100-gm. lots.

ERGOTOXINE. — ETHANESULPHONATE, 10-gm. lots, B.P. '32, 60s. per gm. B.P.C. '49, 72s. 6d.

GLYCEROPHOSPHATES.—Per lb. in 1 cwt. lots, 110s. per gm.; 100-gm., 105s. per gm. CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

HEXAMINE.—B.P., 1s. 6d. per lb. for 1-ton lots, delivered in 1-cwt. bags. Technical is 1s. 5d. per lb.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROGEN PEROXIDE. — 27·5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

HYDROQUINONE.—One-cwt. lots, 10s. per lb., 1-ton, 8s. 6d.

HYOSCINE HYDROBROMIDE.—Per oz. 102s. and per kilo, 3,419s.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

METHYL PHENOBARBITONE.—B.P.C., 78s., per kilo for less than 25-kilo lots.

METHYL SALICYLATE. — Five-ton lots, 3s. 2d. per lb.; 1-ton, 3s. 2½d.; 10-cwt., 3s. 3d.; 5-cwt., 3s. 6d.; 1-cwt., 3s. 8d.

NARCOTINE. — ALKALOID and HYDROCHLORIDE, 5s. 8d. per oz. (200s. kilo) for under 35-oz. lots.

OPIATES. — Home trade prices (per oz.) subject to D.D.A. Regulations:—

	35 oz. and over	Under 35 oz.
	s. d.	s. d.
CODEINE		
ALKALOID	54 0	55 0
HYDROCHLORIDE ...	47 3	48 3
PHOSPHATE	41 0	42 0
SULPHATE	47 3	48 3
MORPHINE		
ACETATE	50 0	51 0
ALKALOID	61 3	62 3
HYDROCHLORIDE ...	50 0	51 0
SULPHATE	50 0	51 0
TARTRATE	60 0	61 0
ETHYLMORPHINE		
ALKALOID	63 3	64 3
HYDROCHLORIDE ...	54 0	55 0
DIAMORPHINE		
ALKALOID	59 9	60 9
HYDROCHLORIDE ...	54 9	55 9

PARAFFINS. — Prices to wholesale distributors per gall.—*Liquid:* HEAVY, B.P., in drums, 8s. 8½d. to 8s. 9½d. as to quantity; over 500 gall. in bulk, 8s. 7½d. *Light*, B.P., drums, 7s. 1½d. to 7s. 2½d.; bulk, 7s. 0½d. *Technical* white: LIGHT, 6s. 6d. to 6s. 7d. and 6s. 3d. in bulk; MEDIUM, 7s. 7d. to 7s. 8d., bulk, 7s. 4½d. Drums charged and returnable. *Soft:* Best grades WHITE, medium consistency, £116 15s. per ton and soft consistency, £113 17s. 6d. YELLOW, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

PARAFORMALDEHYDE.—B.P.C. is 1s. 3d. per lb. for 1-ton lots; 1s. 5d. per lb. for 1-cwt.

PARALDEHYDE. — B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PENTOBARBITONE. — 25-kilo lots and over are 107s. 6d. per kilo.

PETHIDINE HYDROCHLORIDE.—Subject to D.D.A. Regulations, 5-kilo lots, 300s. per kilo.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; less than 25-kilos, 50s. 6d. SODIUM SALT, 55s. 6d. per kilo for less than 25-kilo lots.

PHOLCODINE.—8-oz. lots, 95s. 9d. per oz. (3.377s. per kilo).

PHTHALYL SULPHATHIAZOLE. — Five-kilo lots, 31s. per kilo.

PHYSOSTIGMINE. — ALKALOID, 408s. per oz. (for 4-oz. lots) and 14,110s. per kilo; SALICYLATE, 276s. oz. (9,454s. kilo); SULPHATE, 352s. oz. (12,134s. kilo).

PICROTOXIN.—Per oz. 45s. 6d. (4-oz.).

QUINALBARBITONE.—Sodium salt is 110s. per kilo for 25-kilos and over.

QUINIDINE.—For 15 kilos or 500 oz. or more:—

Home trade	Per kilo	Per 100 oz.
	s. d.	s. d.
QUINIDINE		
SULPHATE	199 1	564 6
ALKALOID cryst. ...	260 8	739 1

Prices include tins and cases and free delivery U.K.

QUININE. — 1,000-oz. lots:—ALKALOID 3s. 11½d. per oz.; SULPHATE, B.P., 1932, 2s. 5¼d.; SULPHATE, B.P., 1958, 2s. 8¾d.; BISULPHITE, 2s. 6¾d.; DIHYDROCHLORIDE, 3s. 7¾d.; HYDROCHLORIDE, 3s. 3¾d.; ETHYL CARBONATE, 4s. 5d.; HYDROBROMIDE, 3s. 2¼d.; SALICYLATE, 4s. 1¾d.

SAL PRUNELLA. — Balls, 3s. 10d. per lb. in 1-cwt. lots.

STRYCHNINE. — 100-oz. lots: ALKALOID, 11s. per oz.; SULPHATE and HYDROCHLORIDE, 9s.

SUCCINYL SULPHATHIAZOLE. — Five-kilo lots, 38s. 6d. per kilo.

SULPHACETAMIDE. — 50-kilo lots, 54s. per kilo; SODIUM, 66s. 2d.

SULPHADIAZINE.—Five-kilo lots, 65s. per kilo; 50-kilo lots, 60s.

SULPHADIMIDINE. — 50-kilo lots are 40s. per kilo.

SULPHAGUANIDINE.—100-kilo lots, about 19s. 6d. per kilo.

SULPHAMETHIAZOLE. — Per kilo.—5-kilo lots, 100s.; 50-kilos, 95s.

SULPHANILAMIDE. — 50-kilo lots, 12s. 8d. per kilo.

SULPHAPYRIDINE. — Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE. — 100-kilos, 32s. per kilo; 50 kilos, 33s.

d-TUBOCURARINE CHLORIDE. — 100-gm. lots, 60s. per gm.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 9d. per lb.

AGAR. — Kobé No. 1, 12s. per lb. in bond; shipment, 11s. 10½d., c.i.f.

ALOES.—Spot primes, 200s. per cwt.; Extra primes, 210s. Shipment nominal. Curaçao, spot, 320s.; shipment, 300s., c.i.f.

ANISE. — Chinese STAR, 185s. per cwt., spot, duty paid; shipment, 150s., c.i.f.

ARROWROOT. — St. Vincent, superfine sifted, 1s. 6d. per lb., spot.

BALSAMS. — Per lb.: CANADA: Spot, 17s. 9d. to 22s. 6d. COPAIBA: B.P.C. grade, 10s. 6d., duty paid. PERU: Spot, 8s. 6d. duty paid. TOLU: B.P., from 10s. 9d. to 32s. 6d.

BELLADONNA. — HERB, 0·5 per cent. 2s. 3d. per lb., duty paid. ROOT, testing over 0·5 per cent., 1s. 9d. per lb.

BUCHU. — Spot, 3s. 10d. per lb.; shipment, 3s. 9d., c.i.f.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CALUMBA ROOT.—Mozambique in bond, 85s. per cwt.; 70s., c.i.f

CAMPHOR. — B.P. powder nominally 4s. 9d. per lb. in bond. No c.i.f. offers.

CARDAMOMS. — Aleppy greens, 9s. per lb. spot; shipment, 10s., c.i.f. Seeds, spot, primes 10s. 9d.

CASCARA.—Dearer. Spot, 230s. per cwt.; shipment, 225s., c.i.f., for new peel, June–July.

CASSIA. — *Fistula*, 105s. per cwt.; *lignea* (whole), for prompt shipment, 250s., c.i.f; spot, 375s., duty paid; broken 225s., c.i.f.

CHAMOMILE. — Roman-type, 1962 crop offers about 11s. per lb.; Matricaria, 7s. 6d.

CHERRY BARK. — Thin natural, 1s. 8d. per lb.

CHILLIES. — Zanzibar, 170s. spot; shipment, 170s. per cwt. Mombasa spot, 200s., shipment, 150s., c.i.f.

CLOVES.—Zanzibar spot, 2s. 10½d. per lb. standard grade; shipment, 2s. 7d., c.i.f.

COCHINEAL. — Canary Isle black-brilliant nominal; silver-grey nominally 16s. per lb., c.i.f. Peruvian, silver-grey, 11s. 9d., duty paid; forward nominal.

COCILLANA.—Bark, 2s. per lb. on the spot.

DIGITALIS.—*Purpurea* leaves, 2s. 8d. to 3s. per lb., as to potency.

ELEMI.—Spot, 1s. 6d. per lb. Shipment, 1s. 1d., c.i.f.

ERGOT. — Portuguese, 8s. 9d. per lb., spot; 8s. 6d., c.i.f.

GINGER.—(Per cwt.). African, spot about 377s. 6d. June–July shipment, 350s., c.i.f. Jamaican No. 3 spot. 680s. Shipment, 670s., c.i.f. Cochin, 245s. spot and c.i.f.

GUM ACACIA. — Kordofan-cleaned sorts, 157s. 6d. per cwt., spot; shipment, 138s., c.i.f.

HENNA. — Indian, spot, about 90s. per cwt.; shipment, 75s., c.i.f.

HONEY. — (Per cwt.). Australian light amber, 145s. to 150s. and medium amber, 140s. to 145s. Argentine, 165s. to 170s.; Jamaican, 130s. to 135s.; Canadian, 165s. to 170s.; Mexican, 155s. nominal; all ex warehouse.

IPECACUANHA. — Matto Grosso and Colombian, 67s. 6d. per lb., c.i.f. No spot.

JUNIPER BERRIES.—Hungarian, 95s. per cwt.; German, 145s. spot.

KARAYA. — No. 1 gum, spot nominal; No. 2, 325s. per cwt.

KOLA NUTS. — African 5½d. spot and 4½d., c.i.f. (per lb.).

LANOLIN. — ANHYDROUS B.P. is from 170s. to 190s. per cwt. in 1-ton lots delivered free drums.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 102s. 6d.

LOBELIA HERB.—American spot, 6s. 3d. per lb.

MACE.—Whole, pale blade, 15s. per lb. nominal; shipment, 14s., c.i.f.

MALEFERN.—Root for shipment quoted at 75s. per cwt., c.i.f.

MENTHOL.—Chinese: spot, 39s. 6d. per lb. duty paid; June–July shipment, 35s., c.i.f. Brazilian, 23s. 6d. to 24s. in bond; shipment, 23s. 6d., c.i.f. Formosan, 27s. 6d. in bond; shipment, 26s., c.i.f.

MERCURY.—Spot ex warehouse is easier at £58 10s. per flask of 76 lb.

NUTMEGS.—West Indian 80's, 12s. per lb.; sound unassorted, 9s. 5d.; defectives, 7s. 9d., f.o.b.

NUX VOMICA.—Cochin, 75s. per cwt. on the spot.

PEPPER. — White Sarawak spot, 3s. to 3s. 2½d. per lb.; shipment, 2s. 10d., c.i.f. Black Sarawak spot, 2s. 4d.; shipment, 2s. 1d. Black Malabar, 320s. per cwt. spot; shipment, 267s. 6d., c.i.f.

PODOPHYLLUM.—Spot, per cwt.: *Emodi*, 245s. nominal; new crop for shipment, 240s., c.i.f.; *Peltatum*, 365s. spot.

PYRETHRUM. — Extracts—partially dewaxed, 25 per cent. pyrethrins, 74s. 6d. to 65s. 6d. per lb.; decolorised dewaxed, 20 per cent., 66s. 6d. to 59s. 4d. per lb.

QUASSIA.—Spot, 57s. 6d. per cwt.

QUILLAIA.—Spot, 180s. per cwt.; shipment, 140s., c.i.f

RHUBARB. — Chinese spot cleared; no shipment offers.

SARSAPARILLA. — Jamaican native red spot, 2s. 10d. per lb.; shipment, not offering.

SEEDS. — (Per cwt.). ANISE.—Spanish, 270s., duty paid. CARAWAY. — Dutch, 157s. 6d., duty paid. CELERY. — Indian, 220s., spot; shipment, current crop, 172s. 6d., c.i.f., new crop for June–July, 157s. 6d., c.i.f. CORIANDER.—Indian, 55s.; Moroccan, 62s. 6d., duty paid; shipment, current crop 57s. 6d., c.i.f. CUMIN.—Iranian, 165s., duty paid; shipment, 140s., c.i.f. DILL.—Indian short at 80s., spot; shipment 60s., c.i.f. FENNEL. — Indian, 125s. spot; shipment, 105s., c.i.f. FENUGREEK. — Moroccan, 52s. 6d. duty paid; shipment firm at 41s., c.i.f. MUSTARD. — English, 50s. to 72s. 6d., according to quality.

SENEGA.—Spot, 14s. 6d. per lb.; shipment, 14s., c.i.f.

SHELLAC.—F.O.T.N., 192s. 6d. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s.

SQUILL.—Spot supplies of white virtually cleared; 85s. per cwt. July shipment offers of new crop awaited.

STYRAX.—Spot, 21s. 6d. per lb.; shipment, 21s., c.i.f.

TRAGACANTH. — No. 1 ribbon, £132 10s. to £135 per cwt. No. 2, £125 to £127 10s. c.i.f.

TURMERIC. — Madras finger spot, 145s. per cwt. quoted; shipment June–July, 135s., c.i.f.

VALERIAN ROOT. — Spot: East European, 175s. per cwt.; Indian, 180s. Shipment: Continental, 172s. 6d. to 205s. 6d. c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.): BEES'.—Dar-es-Salaam, spot 460s.; shipment, 435s., c.i.f. Abyssinian, spot 410s., in bond; shipment, 385s., c.i.f. Sudanese spot 450s.; shipment, 385s., c.i.f. CANDELILLA, spot, 465s.; forward, 460s. landed. CARNAUBA, fatty grey, spot, 305s., shipment, 285s., c.i.f.; prime yellow, spot, 800s.; shipment, 760s., c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 10d. per lb.

Essential and Expressed Oils

ALMOND. — Sweet, English expressed, 9s. 6d. per lb.; foreign, 7s.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE. — Chinese, 18s. 9d. per lb., spot; shipment, 18s. 3d., c.i.f.

BAY.—West Indian about 25s. per lb. on the spot.

CADE. — Spanish, 2s. 6d. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS. — Spot, about 56s. per lb.; shipment, 38s. per lb., c.i.f.

CAMPHOR, WHITE. — Chinese, 2s. 7d. duty paid, per lb.; shipment, 1s. 9d., c.i.f., nominal.

CARAWAY.—Imported oil, 34s. per lb.

CASTOR.—Home produced B.P. oil, spot, £136 per ton naked ex mill (2-ton lots).

CEDARWOOD. — Rectified 6s. per lb. on the spot.

CELERY SEED. — Quotations are from 110s. per lb.

CHAMOMILE.—Smalls 640s. per lb.

CINNAMON.—Best English-distilled, 640s. per lb.; other B.P. oils from 22s. per lb. Ceylon leaf, 12s.; Seychelles, 8s., spot.

CITRONELLA. — Ceylon, spot, 9s. 4d.; shipment, 8s. 10d. per lb., c.i.f. Formosan 15s. 6d., in bond; June shipment, 12s. 9d., c.i.f.; Chinese, spot cleared; June shipment, 15s., c.i.f.

CLOVE.—Madagascar leaf spot, 7s. 4½d. per lb.; duty paid; shipment, 6s. 4½d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, English B.P., 26s. lb. for 1-cwt. lots.

CORIANDER.—B.P. oil, 41s. per lb., spot.

CUBEB.—Spot supplies of imported are 85s. per lb.

CUMIN.—English distilled oil, 130s. per lb.; imported, 85s.

DILL.—Imported, 33s. per lb., spot, 28-lb. tins.

EUCALYPTUS.—B.P. 6s. 6d. and 6s. 9d. per lb. on spot for 70–75 and 80–85 respectively.

FENNEL.—Spanish sweet, spot, 10s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 13s. 6d. per lb. JUNIPER WOOD, from 5s.

OLIVE.—Spot value of Spanish is 38s. to 39s. per gall.; forward, £380–£390 per metric ton, f.o.b. Spain. French and Tunisian oil, £390–£400 per metric ton in drums c. and f., London. Algeria and Greece not offering.

PETITGRAIN.—Paraguay, 18s. 3d. per lb., spot; shipment, 17s. 6d., c.i.f.

PIMENTO. — English-distilled berry from 150s. per lb.; imported, 32s. 6d. Rectified leaf, 19s. 6d. per lb.

ROSEMARY.—Spanish genuine is 9s. 3d. per lb. spot.

SANDALWOOD. — Spot Mysore, 107s. 6d. per lb.; forward, East Indian, 105s., c.i.f.

SASSAFRAS. — Brazilian is from 2s. 6d. per lb., duty paid.

SPEARMINT.—American oil on the spot 24s. per lb.

VETIVERT.—Bourbon spot, 95s. to 105s. per lb.; shipment, 95s., c.i.f.

UNITED STATES REPORT

NEW YORK, JUNE 4: Among ESSENTIAL OILS more favourable costs of EUCALYPTUS OILS are reflected in EUCALYPTOL with spot prices for the latter lower by 10 cents at $1·35–$1·40 per lb., spot. LIME is strong at $6·80–$7 per lb. with stocks dwindling. The tight supply position in BOIS DE ROSE has been relieved temporarily by heavy arrivals.

PRINT AND PUBLICITY

PRESS ADVERTISING

JOHN BEALES, LTD., Peveril Street, Nottingham: Marathon one-way nappies. In *Daily Express, Mother, Family Doctor, Good Housekeeping, Parents, Nursery World, Housewife, My Home, Woman's Realm* and *She.*

BRONCO, LTD., Berkshire Road, Hackney Wick, London, E.9: Dixcel tissues. In London *Evening News* and provincial newspapers.

BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION, LTD.), Wellcome Building, Euston Road, London, N.W.1: Marzine. In *Daily Express, Daily Mirror, Woman, Woman's Own, Woman's Mirror, Go Magazine* and *Woman's Realm.*

COUNTY LABORATORIES, LTD., Great West Road, Brentford, Middlesex: Brylcreem. In national Press.

GOLDEN, LTD., Berkeley Square, London, W.1: Ambre Solaire. In *Daily Express, Daily Telegraph, Daily Mail, Sunday Times* and *The Observer.* Color-Glo. In women's magazines and Sunday newspapers. Elnett hair spray. In *Flair, Woman, Woman's Own, Honey, She, Vanity Fair, Modern Woman* and *Woman and Beauty.*

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION, Wilmslow, Ches: Savlon antiseptic cream. In national Press.

LASTONET PRODUCTS, LTD., Redruth, Cornwall: Quick Snap baby pants. In *Woman, Woman's Own, Woman's Realm, Mother, Parents, Nursery World, Mother and Baby* and *Mother and Child.*

POTTER & MOORE, LTD., Lavender House, London, E.10. Potter & Moore products. In *Woman, Woman's Realm* and *Woman's Own.*

RECKITT & SONS, LTD., Hull, Yorks: Disprin. In national Press.

RIMMEL, LTD., 62 Baker Street, London, W.1: Beauty on a budget preparations. In *Woman, Woman's Own, Woman's Realm, Woman's Mirror, True Story, True Romances* and *She.*

A. WANDER, LTD., Kings Langley, Herts: Wander diabetic products. In national Press.

PUBLICATIONS

GOODWIN STOREFITTERS, LTD., Rochford Road, Southend, Essex. Brochure on Counterpoint counters and self-selection units.

MUIRHEAD & CO., LTD., Beckenham, Kent: Precision electrical instruments (8-p. booklet).

STAFFORD-MILLER, LTD., 166 Great North Road, Hatfield, Herts: "Sensodyne Tooth-paste . . . new therapy for sensitive teeth" (4-p. booklet); "Sensodyne—two clinical studies" (4-p. booklet); "Sensodyne—report of clinical trials" (5-p. booklet).

STURTEVANT ENGINEERING CO., LTD., Highgate Hill, London, N.19: "Sturtevant air-swept mills" (6-p. folder).

Catalogues

JAPANESE CAMERAS, LTD., 50 Piccadilly, Tunstall, Stoke-on-Trent: Illustrated 1963 catalogue (pp. 48).

JOHNSONS OF HENDON, LTD., 335 Hendon Way, London, N.W.4: General catalogue 1962-63 (pp. 151).

NORMAN PENDRED & CO., LTD., 11A Gladiator Street, London, S.E.23. Illustrated catalogue.

PHOTOPIA, LTD., Hempstalls Lane, Newcastle, Staffs. Illustrated 1963 catalogue (pp. 96).

COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

June 16—22	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is.	W.&N.Wales
4711 eau de Cologne	3	3	3	—	—	2	—	—	—	—	—	—	—	—	—
Alka Seltzer	6	3	6	3	6	6	—	6	6	6	6	3	6	6	6
Anadin	5	4	3	5	5	2	4	2	1	1	1	—	—	—	—
Andrews liver salt	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—
Angel Face lipsticks	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Anne French products	1	—	1	—	1	—	—	1	1	—	—	—	—	—	—
Askit	—	—	—	13	—	—	—	—	—	—	7	2	—	—	—
Babysoft	1	3	—	—	—	—	1	—	—	—	—	—	—	—	—
Beecham pills	—	—	1	—	—	—	4	—	—	—	—	—	—	—	—
powders	4	4	3	3	5	3	5	6	6	3	3	6	—	—	—
Bisodol	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Bristow's lanolin shampoo	1	—	—	2	—	—	1	—	—	4	—	3	—	—	—
Bunty baby products	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—
Delrosa rose hip syrup	3	1	2	2	1	1	2	2	2	—	—	—	—	—	—
Dentu-cream	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dinneford's magnesia	1	1	1	—	1	—	1	1	—	—	—	—	—	—	—
Dylon-spot dry cleaner	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fields fragrances	—	—	—	1	—	1	1	—	—	—	—	—	—	—	—
Freezone	—	3	2	—	—	—	3	—	—	—	—	—	—	—	—
Germolene	3	1	3	3	3	3	4	3	3	3	—	5	—	—	—
Gillette razors and blades	1	1	1	1	1	1	1	1	1	1	1	1	—	—	1
Ibcol	2	2	—	—	—	—	1	—	—	—	—	—	—	—	—
Ilford cameras and films	5	5	3	1	5	6	5	4	5	4	5	4	—	5	6
Immac	1	1	1	1	3	1	—	1	1	1	—	—	—	—	—
Imperial Leather soap	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Kodak cameras and films	2	1	5	5	5	5	5	5	5	6	7	5	—	—	—
Loxene shampoo	2	2	1	2	3	4	3	3	3	3	4	3	2	—	2
Macleans tooth-paste	—	—	1	2	2	2	1	3	—	1	2	3	—	—	—
Milk of Magnesia	1	1	1	2	2	2	3	2	2	2	2	3	—	—	—
Moorland tablets	—	—	—	—	2	—	—	2	2	—	—	—	—	—	—
Mum deodorants	3	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Phyllosan	3	3	3	—	3	—	3	—	—	—	—	—	—	—	—
Radox bath salts	2	4	—	—	—	3	—	4	—	—	—	—	—	—	—
Rinstead pastilles	—	1	1	2	2	1	3	3	2	—	2	—	—	1	—
Sanilav	1	1	—	—	—	—	1	—	—	—	—	—	—	—	—
Schick Superspeed shaver	—	—	4	—	—	—	—	—	—	—	—	—	—	—	—
Setlers	2	3	2	—	—	—	—	—	—	—	—	—	—	—	—
Swan Lake bath cubes	3	3	3	—	—	3	—	—	—	—	—	—	—	—	—
VO5 conditioner	2	—	—	1	1	—	—	1	—	1	—	—	—	—	—
shampoo	—	3	2	—	1	1	—	3	—	2	—	—	—	—	—
spray	2	—	1	—	2	1	—	2	—	2	—	—	—	—	—
Get Set	1	1	—	1	2	—	—	—	—	2	—	—	—	—	—
hair spray	—	1	2	4	—	2	—	2	—	—	—	—	—	—	—



COMPACT DISPLAY PIECE: A new, compact, display stand in wire for Tubigrip tubular supporting bandage. The stand carries a carton of six and four singles on the wings. It is available free from the United Kingdom distributors to chemists: Bateman-Jackson, Ltd., 3 Grove Street, Wilmslow, Ches.

COMING EVENTS

Items for inclusion under this heading next week should be sent in time to reach the Editor not later than first post on Wednesday morning.

Tuesday, June 11

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY, Langford's hotel, Third Avenue, Hove, at 8 p.m. Mr. E. A. Jensen on "Problems of Stock Control in Retail Pharmacy."

Wednesday, June 12

INTERNATIONAL PLASTICS EXHIBITION AND CONVENTION (INTERPLAS), Olympia, London, W.14. Until June 22.

THAMES VALLEY PHARMACISTS' ASSOCIATION, Watney's brewery, Mortlake, at 2.30 p.m. Visit.

UNIVERSITY OF LONDON, Post-graduate Medical School of London, 150 Du Cane Road, London, W.12, at 2 p.m. Professor A. W. Downie on "Vaccines in the Control of Virus Diseases."

UNIVERSITY OF LONDON, physiology lecture theatre, University College, Gower Street, London, W.C.1, Professor J. S. Fruton (Yale University) on "Enzyme-Catalysed Transamidation Reactions."

Thursday, June 13

BIOLOGICAL METHODS GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, United Dairies, Ltd., laboratories, Wood Lane, London, W.12, at 11 a.m. Papers on "Aspects of the Natural Composition and Hygienic Quality Schemes" and "Antibiotics in Milk" and tour of the laboratories.

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Bald Hind hotel, Hainault Road, Chigwell, at 7 p.m. Annual summer meeting. Mr. A. W. Newberry on "International Business and Pleasure."

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, National Institute of Research in Dairying, Shinfield, Reading, at 10.45 p.m. Presentation of papers and tour of the laboratories.

Advance Information

GLASGOW SECTION, ROYAL INSTITUTE OF CHEMISTRY, chemistry department, Royal College of Science and Technology, Glasgow. Exhibition of laboratory apparatus. June 25-27.

PHARMACEUTICAL GROUP, FRIENDS OF THE HEBREW UNIVERSITY OF JERUSALEM, London Hilton hotel, Park Lane, London, W.1, June 30. Dinner and ball. Tickets (£3 10s. each) from 237 Baker Street, London, N.W.1.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 22

Far vasaconstrictors for use in aphthalmic salutians (5)

VASOCON, 843,355, by Smith, Miller & Patch, Ltd., London, E.C.1.

Far disinfectants far use in breweries, dairies, wine cellars and the preserving industry (5)

DIMANIN, 840,837, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For pharmaceutical and veterinary preparations (5)

DELTOMIDE, 840,856, by Pfizer, Ltd., Sandwich, Kent.

For preparations for killing weeds and destroying vermin, fungicides and insecticides (5)

SEMERON, 844,121, by J. R. Geigy, S.A., Basle, Switzerland.

For pharmaceutical preparations and substances being peristaltic stimulants (5)

DORBANTYL, 844,279, by Riker Laboratories, Inc., Northbridge, California, U.S.A.

Far photographic apparatus and parts (9)

PHOTOMATON, 839,119, by Cyril Astor Photomaton (London), Ltd., Flintshire, N. Wales.

Far photographic, cinematagraphic and optical apparatus and instruments; and parts and fittings (9)

ETONA, B842,379, by Mayfair Photographic Suppliers, London, N.W.3.

Far bady belts far medical or surgical purposes (10)

LUMUSCOBA, 843,427, by Johnston Body Belt Co., Richmond, Surrey.

Far hair nets, hairbands, ornaments far the hair, hair fasteners, hair plaits and hair supparts (26)

PIXIE, 831,653, by McClintock and Holzmann G.m.b.H., Innsbruck, Austria.

From the "Trade Marks Journal," May 29

Far chemical substances far use in the manufacture of perfumes, perfumery praducts, saap and af cosmetics (1)

Device with word BUSH, 834,989, by W. J. Bush & Co., Ltd., London, E.8.

For chemical praducts for use in industry, science and phatagraphy; and chemical substances far sensitising paper and like materials (1)

FI-LINE, 835,249, by Whiffen & Sons, Ltd., Loughborough, Leics.

Far all goads far use in photagraphy, photacopying processes and x-ray processes (1)

Device with word PAKO, 838,806, by Pako Corporation, Minneapolis, Minnesota, U.S.A.

Far chemical praducts for use in the textile, leather, plastics and paper industries (1)

ALBEGAL, 843,685, by CIBA, Ltd., Basle, Switzerland.

Far non-medicated preparations in cream form (3)

Device with letters B TIB ST, B835,475, by Colrex, Ltd., Brighton, Sussex.

Far nan-medicated bath salts (3)

Device with letters SL MSW FT, B835,477, by Colrex, Ltd., Brighton, Sussex.

Far preparations for tinting the hair, packed in containers adapted ta dispense their contents in aerosal form (3)

COPPER CASCADE, 841,675, by Goya, Ltd., London, W.1.

Far perfumes, tailet preparations (not medicated), casmetic preparations, dentifrices and soaps (3)

CUSSONS GISELLE, CUSSONS PETITE, 843,351-52, by Cussons, Sons & Co., Ltd., Manchester, 7.

Far pharmacentical steraid preparations for human use (5)

DIANACORTEN, 839,984, by CIBA, Ltd., Basle, Switzerland.

Far enzyme preparatians far pharmaceutical purpases (5)

ALCALASE, 842,405, by Novo Industri A/S, Copenhagen, Denmark.

Far medicinal preparatians cantaining sulphur, far use in the treatment of hypertension (5)

THIAVER, 840,373, by Riker Laboratories, Inc., Northridge, California, U.S.A.

For veterinary preparations consisting of sulphadimidine and sulphathiazale (5)

DIMAZOLE, 841,478, by Stevenson, Turner & Boyce, Ltd., Guelph, Ontario, Canada, and Reading, Berks.

Far sanitary tawels (5)

BLUE STAR, 842,975, by Southalls (Birmingham), Ltd., Birmingham, 8.

For pharmaceutical preparations and substances far human and veterinary use (5)

SYNACTHEN, 844,465, by CIBA, Ltd., Basle, Switzerland.

Far all gaads (5)

LANDROMIL, 845,658, by Dr. A. Wander, S.A., Berne, Switzerland. CALCETOSAN, 845,744, by Roche Products, Ltd., Welwyn Garden City, Herts.

Far photographic instruments and apparatus, all far persanal use (9)

LINCE, B819,409, by Ferrania S.p.A., Milan, Italy.

Far apparatus far synchranising saund reproducing apparatus with cinematagraphic projectors (9)

SYNCADEK, 841,949, by Syncrodek, Ltd., London, S.W.1.

For gloves (10)

SURGLOVE, B838,513, by Ethicon, Inc., Bridgewater Township, New Jersey, U.S.A.

Far blankets and pads, all being electrically heated (10)

THERMOMAX, B838,914, by Antonio Negromanti, Milan, Italy.

Far tailet paper, facial tissues, paper handkerchiefs and paper tawels, nane being medicated; paper serviettes (16)

PETAL, 841,510, by Bowater-Scott Corporation, Ltd., London, S.W.1.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," May 22

Pracess for prapagating rabies virus. Parke, Davis & Co. 930,451.

Stabilization af dihydraxyphenylalkyl amines. Regents of the University of California. 930,452.

Preparation of 5-aminamethyl-2-furfurylamine. Merck & Co., Inc. 930,506.

Therapeutic oral preparatian af micraarganisms. Sigurta Farmaceutici. 930,107.

Benzamide compounds and methads far their praductian. Parke, Davis & Co. 930,295.

Process for the praductian of phenals. Distillers Co., Ld. 930,161.

Anthranilic acid derivatives and methads for producing same. Parke, Davis & Co. 930,477.

Pyridinium salts. E. Merck, A.G. 930,040.

Carbamic acid ester. CIBA, Ltd. 930,430.

Amylanthraquinanes and process for their manufacture. L. G. Dawsey. 930,227.

Benzaxazale compaund. Laboratoire Perrier. 930,306.

Process far preparing thiamine derivatives. Sankyo Co., Ltd. 930,302.

Methad af praducing vitamin A acid esters. Sumitomo Chemical Co., Ltd. 930,225.

Encapsulatian af particles by liquid-liquid phase separatian. Upjohn Co. 930,421.

Process for the ensulation af particulate material. Upjohn Co. 930,422.

Rendering of fabrics substantially anti-static and saft and at least partially free fram microorganisms. Armour & Co. 930,333.

N-palylhalaethylthio, 1,2-di-carbaximides and fungicidal compositions cantaining same. California Research Corporation. 930,224.

Fungicidal campositians containing hexachloro-strimethylene-trisulphone. Farbenfabrik Wolfen Veb. 930,305.

Fungicides and algaecides. United States Rubber Co. 930,598, 930,450.

Herbicides. United States Rubber Co. 930,599.

Pivated blade phatagraphic shutters. Agfa, A.G. 930,083.

Phatagraphic pracesses and in photographic sensitive materials therefore. Kodak, Ltd. 930,572.

Phatagraphic abjectives. M. C. Schneider. 930,328.

Rapid pracessing photagraphic apparatus and method. Photomechanisms, Inc. 930,338.

Photagraphic layers suitable for the silver dyestuff bleaching method. CIBA, Ltd. 930,479.

Apparatus for editing kinematagraphic films. Haynor, Ltd. 930,057.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from July 3, 1963.

From the "Official Journal (Patents)," May 29

Methad af praducing canine distemper vaccine. Behringwerke, A.G. 931,137.

Pharmaceutical preparatians containng sitosterals. Laboratoires Rabapharm. 931,115.

Sustained release pharmaceutical preparatians and methads far their manufacture. Olin Mathieson Chemical Corporation. 931,147.

Pharmaceutical preparations containng urea derivatives. Olin Mathieson Chemical Corporation. 930,844.

Amino acids cancentrate and intravenous preparatians thereaf. Distillers Co., Ltd. 931,016.

Antitubercular campasitian camprising acetanilide derivatives. American Cyanamid Co. 930,808.

Liqnid based surgical lubricating campositians. Ethicon, Inc. 931,206.

Pharmaceutical campasitians cantaining quinazalane campaunds. Soc. Industrielle pour la Fabrication des Antibiotiques. 931,019.

Plant extract. P. Couderc. 931,043.

3,6-disubstituted-7-sulphamyl-3,4-dihydrobenza-1-thia 2,4-diazine-1,1-diozides and their preparatian. Chas. Pfizer & Co., Inc. 930,671.

Cultivatian of human cald virus. National Research Development Corporation. 930,720.

Antibiatics cantaining a cyclopentanaphenanthrene nucleus. Lovens Kemiske Fabrik Ved a Kongsted. 930,786.

Pracess far the praductian of 7-chlara-6-demethyltetracycline. Olin Mathieson Chemical Corporation. 930,969.

16:17-methylene-20-ketosteraids and a process for their manufacture. Schering, A.G. 930,670.

Process far the preparatian of 20-alkylamina steroid derivatives and 20-alkylamina steraid derivatives prepared thereby. Smith Kline & French Laboratories. 930,676.

19-nor-testasterone-17-hemiacetal and -hemiacetal esters. Lovens Kemiske Fabrik Ved a. Kongsted. 931,188.

6-methyl-19-nar-steraids. Organon Laboratories, Ltd. 931,009.

Processes far the praductian af steroid esters and the steraid esters thus praduced. Roussel-Uclaf. 930,885.

Manufacture af steraids. Upjohn Co. 930,888.

Triflnoramethyl salicylamides. Cassella Farbwerke Mainkur, A.G. 930,950.

Process far coating particulate material by liquid-liquid phase separatian. Upjohn Co. 931,148.

Dual coating process. Upjohn Co. 931,149.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from July 10, 1963.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

BRADYKININ and eosinophils. *Nature,* June 1.

HALOTHANE. Estimation of, tensions in blood by gas chromatography. *Nature,* June 1.

(ESTROGENS AND PROGESTERONE. Action of, on uterine epithelial mitos's in organ culture. *Nature,* June 1.

DRUG ANIONS. Accumulation of, in gastric mucosal cells. *Nature,* June 1.

PARAMETHASONE and lupus erythematosus. *J. Amer. med. Ass.,* May 11.

THERAPY in chronic bronchitis and pulmonary emphysema. *J. Amer. med. Ass.,* May 11.

NITROFURANTOIN. Anaphylactic reaction caused by treatment with. *J. Amer. med. Ass.,* May 11.

A NEW AMINOPHYLLINE PREPARATION. Clinical trials of. *Brit. med. J.,* June 1.

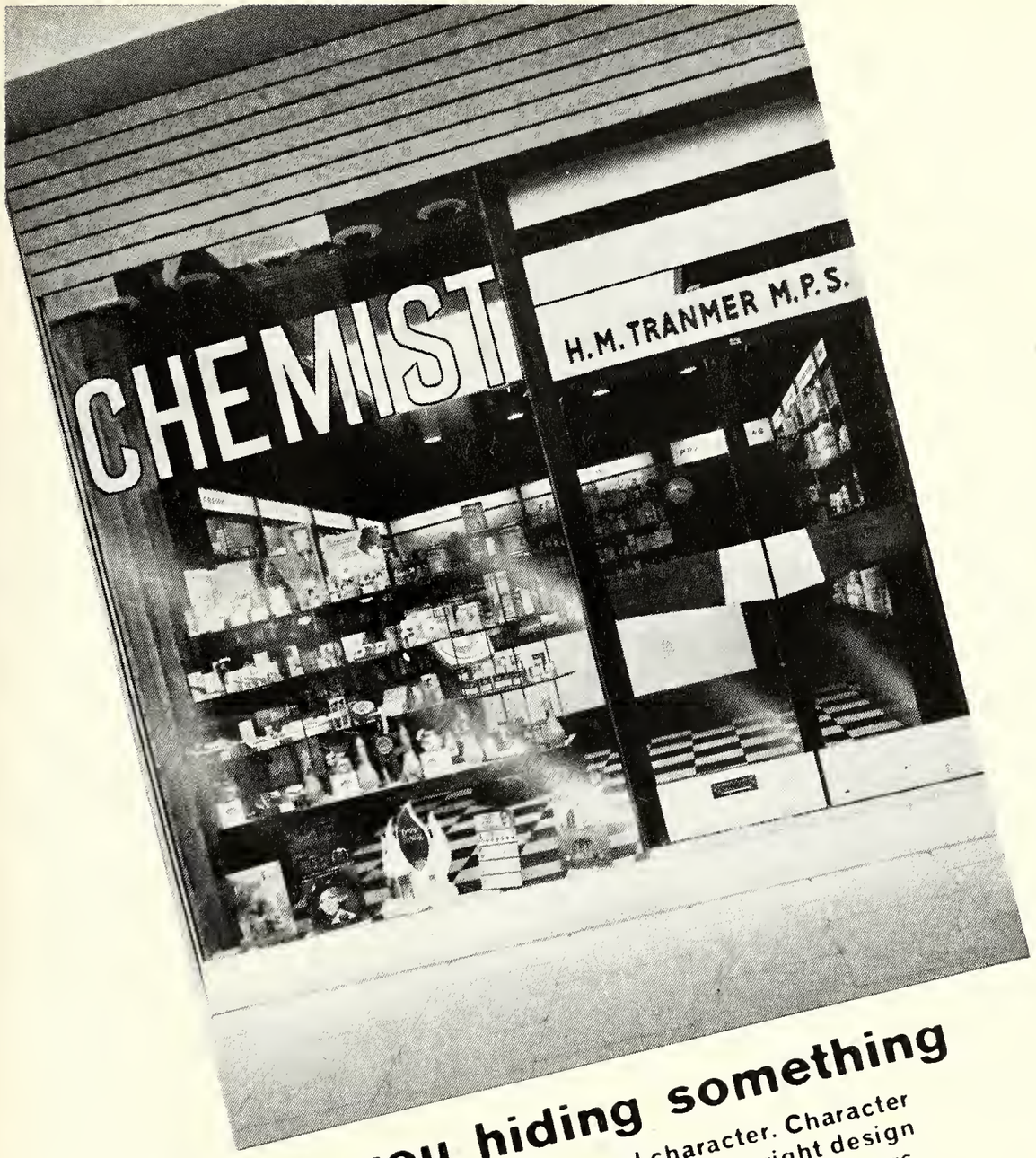
HALOTHANE hepatit's. *Lancet,* June 1.

WILLS

MR. C. PALMER MORGAN, M.P.S., 3 Market Square, Narberth, Pembs, left £15,349 (£13,639 net).

MR. E. B. PATTINSON, M.P.S., Chalk Rise, Thursby, Cumberland, left £11,458 (£11,392 net).

MR. R. L. RUSSELL, The Knab Hill, Crest Road, Newhaven, Sussex, who qualified as a chemist and druggist in 1900, left £4,572 (£4,522 net).



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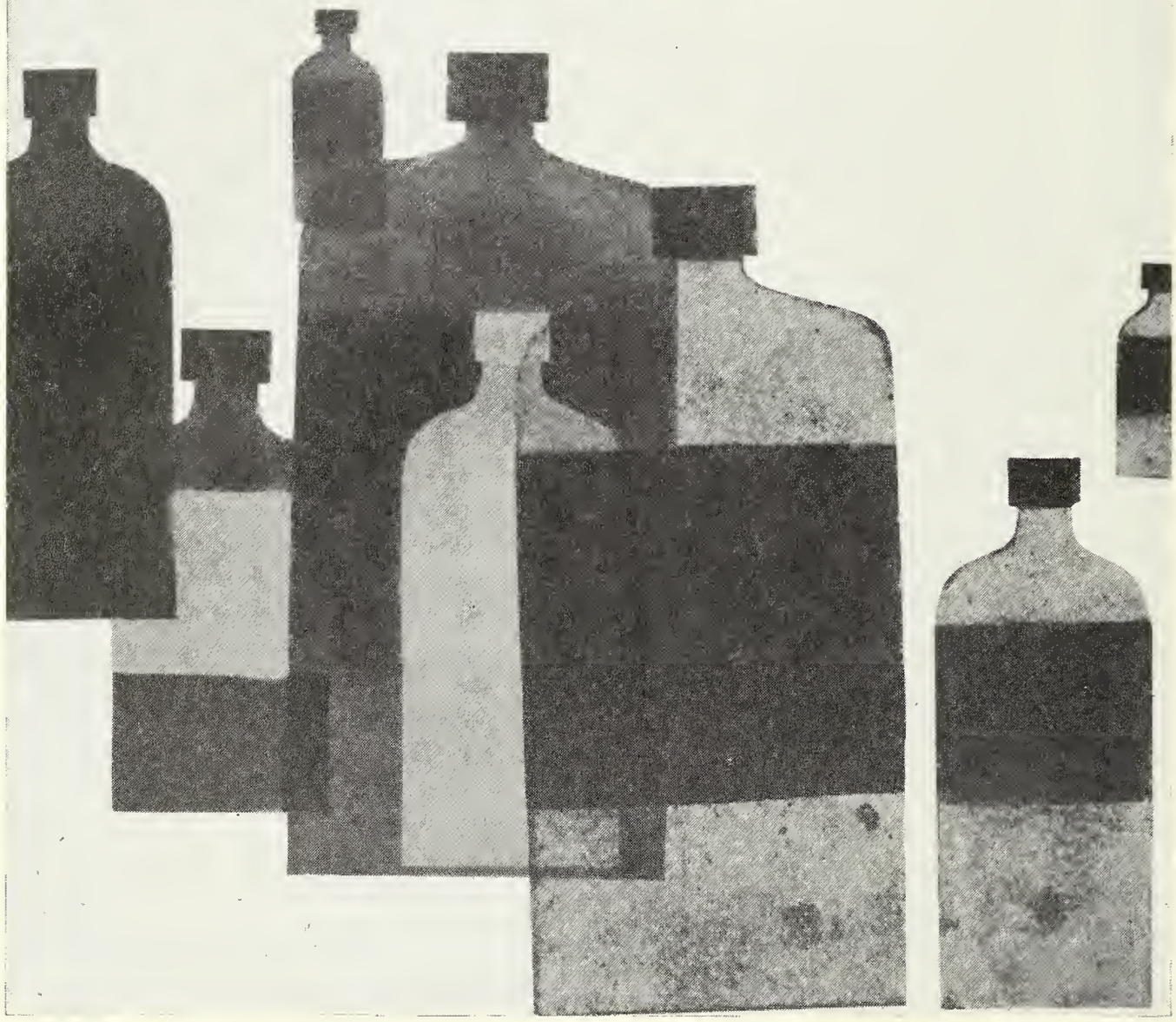
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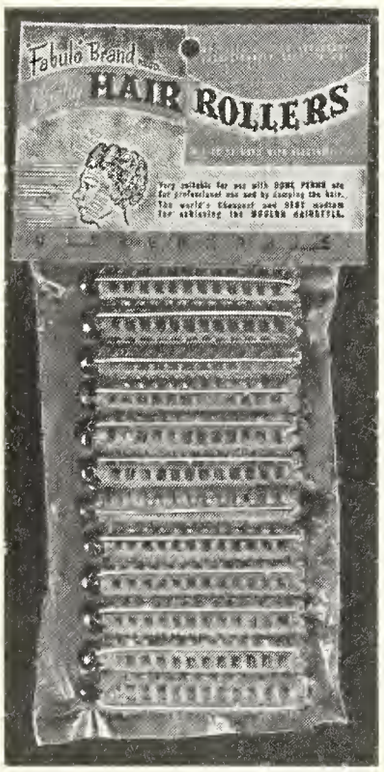
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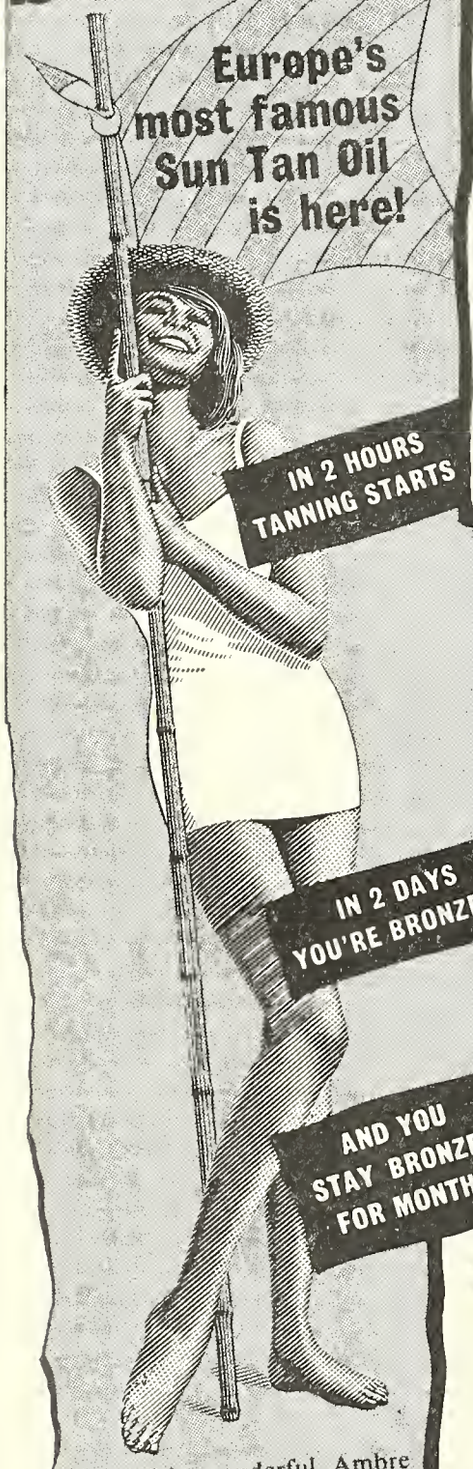
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Nicholas Laboratories are proud to announce a new product which improves on all its predecessors in the field of antihypertensive drugs.

This product is 'Isotense', which surely and safely lowers the blood pressure and allays anxiety, without producing tolerance or distressing side effects.

Doctors throughout Britain are being informed about 'Isotense', which is now available for prescription.

Composition: Each tablet contains 1 mg. syrosingopine.
Pack and basic N.H.S. cost:
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'Isotense' is a registered trade mark.

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NOTE THE FORMULA Aminoacridine 0.1%, Benzocaine 0.1%, Phenoxetol 1.0% in non-greasy base.

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Lederle Laboratories Division of Cyanamid of Great Britain Limited announce that as from 10th June, 1963, prices in the United Kingdom of pharmaceutical Aureomycin, Achromycin, Achromycin V and Ledermycin — for all dosage forms — will be reduced to the trade by 15%

Lederle antibiotics price reductions

code no.		old trade price £ s. d.	new trade price £ s. d.	new retail price £ s. d.
4766-11	Achromycin Capsules 50 mg. x25	8. 0.	6. 10.	10. 3.
4766-23	Achromycin Capsules 50 mg. x100	1. 10. 4.	1. 5. 10.	1. 18. 9.
4768-07	Achromycin Capsules 250 mg. x16	1. 1. 8.	18. 6.	1. 7. 9.
4768-23	Achromycin Capsules 250 mg. x100	6. 10. 4.	5. 10. 10.	8. 6. 3.
4768-34	Achromycin Capsules 250 mg. x1000	62. 18. 6.	53. 9. 8.	80. 4. 6.
4776-52	Achromycin for Ear Solution	5. 2.	4. 4.	6. 6.
4772-94	Achromycin I/M 100 mg.	3. 10.	3. 4.	5. 0.
4771-95	Achromycin I/V 250 mg.	7. 2.	6. 2.	9. 3.
4771-96	Achromycin I/V 500 mg.	13. 0.	11. 0.	16. 6.
4779-56	Achromycin Ointment 3% ½ oz.	3. 4.	2. 10.	4. 3.
4779-55	Achromycin Ointment 3% 1 oz.	6. 2.	5. 2.	7. 9.
4780-54	Achromycin Eye and Ear Ointment 1% 6 x ⅛ oz.	5. 2.	4. 4.	6. 6.
4805-32	Achromycin Ophthalmic Oil Suspension 1%	1. 6.	1. 4.	2. 0.
4775-55	Achromycin Ophthalmic Powder Sterilized	4. 2.	3. 6.	5. 3.
4782-16	Achromycin for Oral Suspension	8. 0.	6. 10.	10. 3.
4799-34	Achromycin Liquid Pediatric Drops	5. 6.	4. 8.	7. 0.
4786-23	Achromycin Soluble Tablets	1. 10. 4.	1. 5. 10.	1. 18. 9.
4797-56	Achromycin Syrup 2 oz.	8. 0.	6. 10.	10. 3.
4797-65	Achromycin Syrup 16 oz.	2. 18. 4.	2. 9. 8.	3. 14. 6.
4751-11	Achromycin Tablets 50 mg. x25	8. 0.	6. 10.	10. 3.
4751-23	Achromycin Tablets 50 mg. x100	1. 10. 4.	1. 5. 10.	1. 18. 9.
4753-07	Achromycin Tablets 250 mg. x16	1. 1. 8.	18. 6.	1. 7. 9.
4753-23	Achromycin Tablets 250 mg. x100	6. 10. 4.	5. 10. 10.	8. 6. 3.
4753-34	Achromycin Tablets 250 mg. x1000	62. 18. 6.	53. 9. 8.	80. 4. 6.
4791-11	Achromycin Troches 15 mg. x25	3. 2.	2. 8.	4. 0.
4852-11	Achromycin V Capsules 50 mg. x25	8. 0.	6. 10.	10. 3.
4852-23	Achromycin V Capsules 50 mg. x100	1. 10. 4.	1. 5. 10.	1. 18. 9.
4850-07	Achromycin V Capsules 250 mg. x16	1. 1. 8.	18. 6.	1. 7. 9.
4850-23	Achromycin V Capsules 250 mg. x100	6. 10. 4.	5. 10. 10.	8. 6. 3.
4850-34	Achromycin V Capsules 250 mg. x1000	62. 18. 6.	53. 9. 8.	80. 4. 6.
5400-34	Achromycin V Pediatric Drops	5. 6.	4. 8.	7. 0.
5410-56	Achromycin V Syrup 2 oz.	8. 0.	6. 10.	10. 3.
5410-65	Achromycin V Syrup 16 oz.	2. 18. 4.	2. 9. 8.	3. 14. 6.
4425-11	Aureomycin Capsules 50 mg. x25	8. 0.	6. 10.	10. 3.
4425-23	Aureomycin Capsules 50 mg. x100	1. 10. 4.	1. 5. 10.	1. 18. 9.
4474-07	Aureomycin Capsules 250 mg. x16	1. 1. 8.	18. 6.	1. 7. 9.
4474-23	Aureomycin Capsules 250 mg. x100	6. 10. 4.	5. 10. 10.	8. 6. 3.
4474-34	Aureomycin Capsules 250 mg. x1000	62. 18. 6.	53. 9. 8.	80. 4. 6.
4700-52	Aureomycin for Ear Solution	5. 2.	4. 4.	6. 6.
4426-56	Aureomycin Ointment 3% ½ oz.	3. 4.	2. 10.	4. 3.
4426-55	Aureomycin Ointment 3% 1 oz.	6. 2.	5. 2.	7. 9.
4723-54	Aureomycin Ointment (Ophthalmic) 1% 6 x ⅛ oz.	5. 2.	4. 4.	6. 6.
4731-58	Aureomycin Syrup 4 oz.	16. 2.	13. 8.	1. 0. 6.
4731-65	Aureomycin Syrup 16 oz.	2. 18. 4	2. 9. 8.	3. 14. 6.
9208-07	Ledermycin Capsules 150 mg. x16	1. 1. 8.	18. 6.	1. 7. 9.
9208-23	Ledermycin Capsules 150 mg. x100	6. 10. 4.	5. 10. 10.	8. 6. 3.
9208-34	Ledermycin Capsules 150 mg. x1000	62. 18. 6.	53. 9. 8.	80. 4. 6.
9226-34	Ledermycin Drops	5. 6.	4. 8.	7. 0.
9231-56	Ledermycin Syrup 2 oz.	8. 0.	6. 10.	10. 3.
9231-65	Ledermycin Syrup 16 oz.	2. 18. 4.	2. 9. 8.	3. 14. 6.

Lederle Laboratories a division of Cyanamid of Great Britain Limited London WC2

C

Miss Beatson

PRESENTS

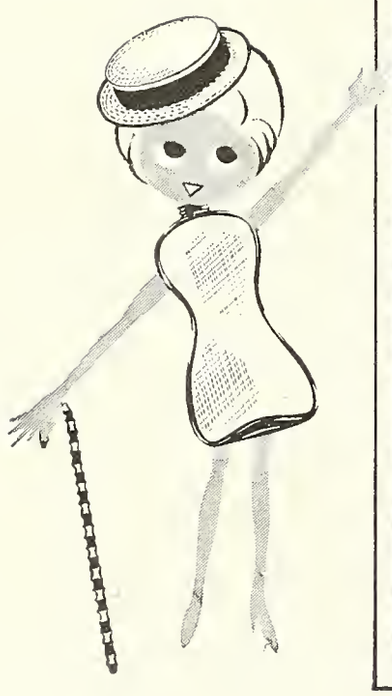
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Every time you change the teat you change the mother—and baby knows the difference! It is a well established fact that infantile anxieties and frustrations can be directly associated with the failure of ordinary rubber teats to replace the natural process of baby feeding.

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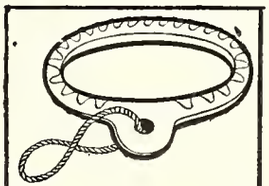


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Cut shop-fitting costs with



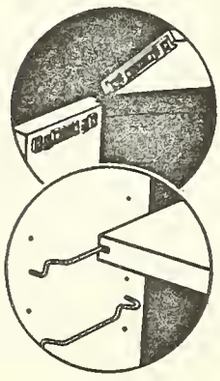
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Patent No. 641839

Lundia

SHELVING

KNOWN THROUGHOUT THE WORLD



Easy to assemble Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

Shelves simple to adjust Special spring clips plug into uprights of Remploy-Lundia Shelves at ¾ inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.

NO OUTSIDE LABOUR NEEDED TO ASSEMBLE

Fitting or refitting your shop with Remploy-Lundia prefabricated shelving saves you money. It needs no outside labour to assemble . . . it costs far less than custom-built installations . . . and it is remarkably adaptable.

Because of the comprehensive range of sizes, Remploy-Lundia Shelving can fit into any given wall space to *within* 6 *inches*. Each shelf is adjustable—can be moved up or down at intervals of ¾ inch.

Any combination of widths can be joined together, and extension bays are easily added to existing Remploy-Lundia units.

Made from polished hardwood in natural finish, Remploy-Lundia Shelving is smart looking as well as practical. Remploy-Lundia can cost as little as 70/- per foot by 6ft. high.

Fill in coupon today for full details of Remploy-Lundia Shelving

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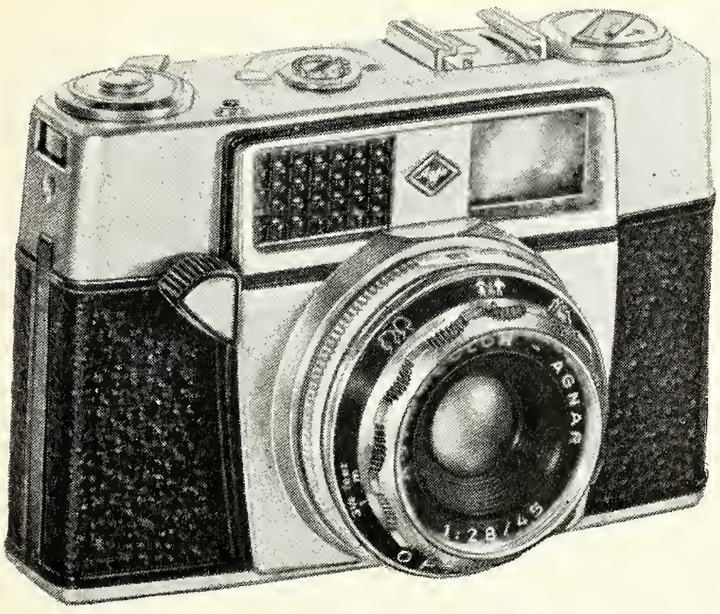
Please send me full details of Remploy-Lundia Shelving **Tel: GLA. 8020**

NAME .....

ADDRESS .....

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London Showroom : 22 Bruton St., W.1. Tel : MAYfair 4881/2



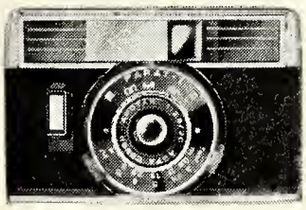
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Widely advertised in the Daily Express, Daily Mail, Daily Telegraph and all the best photographic magazines, Agfa cameras are world renowned for their superb quality and absolute dependability. For the customer who wants something better, recommend one of these fine Agfa cameras.

OPTIMA IA £28·10·6

A first class fully automatic 35 mm camera for under £30. Takes standard cassettes and sets shutter and aperture automatically for all films with speed ratings 10-200 A.S.A. Superb Agfa Color-Agnar f2.8/45 mm lens, shutter continuously variable from 1/30-1/160th sec. Symbol focus setting. Brightline viewfinder. Single lever wind.

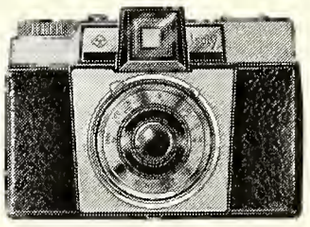


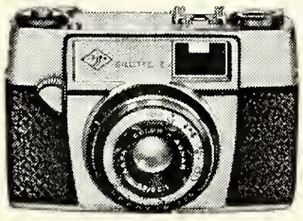
PARAT I £12·19·6

The new look in 35 mm, the Parat is a genuine 'half-frame' camera (18 x 24 mm frames on 35 mm film) using standard cassettes. Superb f2.8/30 mm Agfa Color-Apotar lens gives excellent definition. Shutter speeds 1/30-1/125th sec. plus flash and B settings. Symbol focus, rapid lever wind.

ISOLY I £6·4·5

A first class 120 camera that's really easy to use. Takes sixteen 4 x 4 cm exposures. Focusing f8 Achromat lens with two stops (f11 and f8) and shutter speeds of 1/30th and 1/100th give versatility without complexity. Flash synchronized.



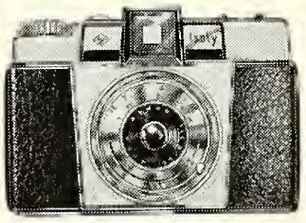


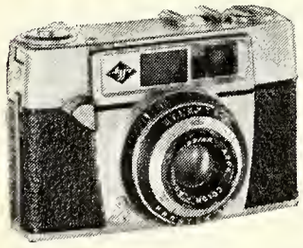
SILETTE I £9·19·6

Handy, versatile 35 mm camera combines simplicity of operation with Agfa precision. High resolution, Agfa Color-Agnar f2.8/45 mm lens, Prontor 125 shutter, flash synchronized with accessory contact shoe.

ISOLY II £8·4·6

Top quality 120 camera for sixteen 4 x 4 cm exposures. Featuring f6.3 Agfa Agnar lens focusing to 3½ ft. Shutter speeds of 1/30th and 1/100th plus brief time setting. Flash synchronized with accessory contact shoe.



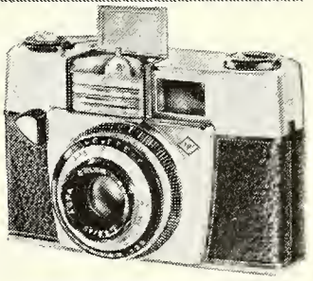


SILETTE II £13·18·6

All the extra refinements add up to top value on the Silette II. In addition to the Agfa Color-Agnar f2.8/45 mm lens, and Prontor 125 shutter, the super clear brightline viewfinder and delayed action release combine with flash synchronization, and rapid lever wind to make this a fine action camera.

SILETTE F £12·19·6

Photography in *any* situation is assured by the built-in flashgun of the Silette F. Takes standard 35 mm cassettes and AG flash bulbs, powered by 15 volt hearing aid battery. Features Agfa Color-Agnar f2.8/45 mm lens, Prontor 125 shutter, flash calculator and rapid lever wind.



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12 for the price of 11 **AND** 10% DISCOUNT on £10 orders direct from Dendron (excl. Purchase Tax) or 5% DISCOUNT on £5 orders **AND** Supporting Display material. You can combine your Spray-Tan order with other Dendron lines to qualify for the above quantity discounts.

SO BE SURE TO STOCK UP WITH BONUS-PLUS SPRAY-TAN

ORDER NOW

Please deliver, carriage paid at 12 invoiced 11: ..... doz. Spray-Tan "Original" and ..... doz. Spray-Tan "Mousse of Lanolin", with Display material. List price 78/10d. per doz. Purchase Tax 19/9d. per doz. Retail price 11/6d. each.

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DENDRON DISTRIBUTORS LIMITED
94 Rickmansworth Road, Watford, Herts.

Burroughs
ADDING MACHINES



Since the first Burroughs Adding Machine was built over 75 years ago, Burroughs has been known the world over for dependability, quality and efficiency.

Choose any model from Burroughs' complete line of fine adding machines—you'll get the most for your money (from £31)—and a solution to your figuring problems.

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I would like ☐ *More information*
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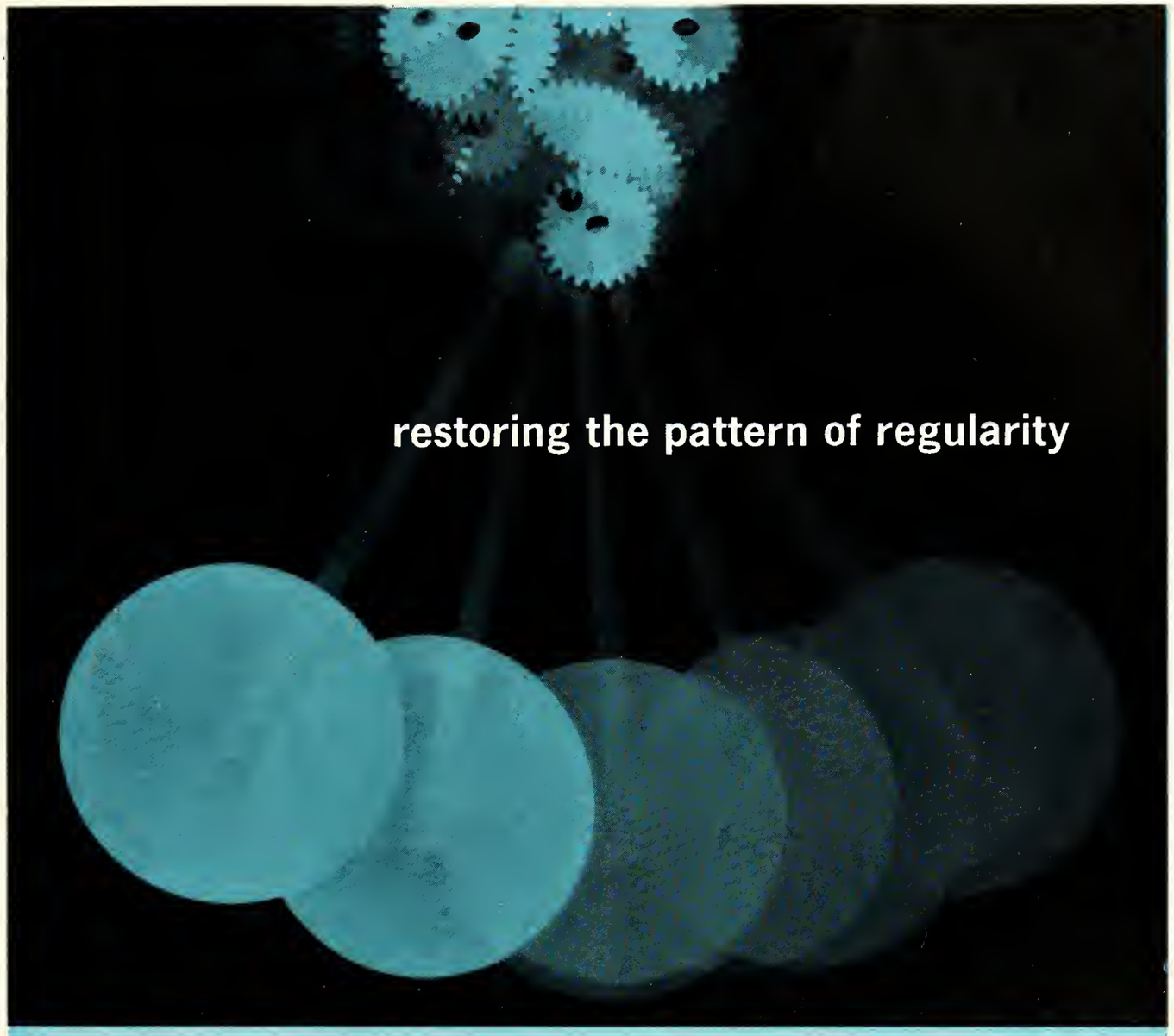
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Dulcolax is a reliable, predictable laxative which may help restore normal bowel function in any patient, young or old, where this has been disturbed. Tablets or suppositories, or a combination of both, can be used for this purpose. Dulcolax is a contact laxative which, if taken after food, can be relied upon to produce a motion within 10–12 hours. The normal dose is 1–2 tablets. A suppository will act within 20 minutes to an hour. Once normal bowel rhythm is restored Dulcolax can be discontinued without difficulty. □ Dulcolax is, of course, contra-indicated in cases of intestinal obstruction, as are all laxatives.

dulcolax

Regd. Trade Mark

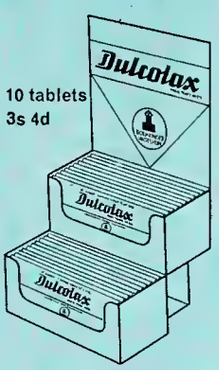
(4,4¹-diaceloxy-diphenyl)-(pyridyl-2)-methane

Trade Prices

Tablets 5 mg. (Bottles)		Suppositories 10 mg. (Boxes) (Supp. Bisacodyl B.N.F.)	
30	2s 1d	6	2s 1d
200	10s 10d	50	12s 6d
1000	£2 11s 6d	200	£2 7s 6d

Suppositories 5 mg. (for children) box of 6: 1s 10d

Display pack of 20 x 10 tablets
Trade price each £1 3s 4d



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I'm going to sell

... a wonderful new range by **Silcot** for modern girls like me! This new range will be packaged and advertised under the brand name **Sil-kini**, and here are the new products ...



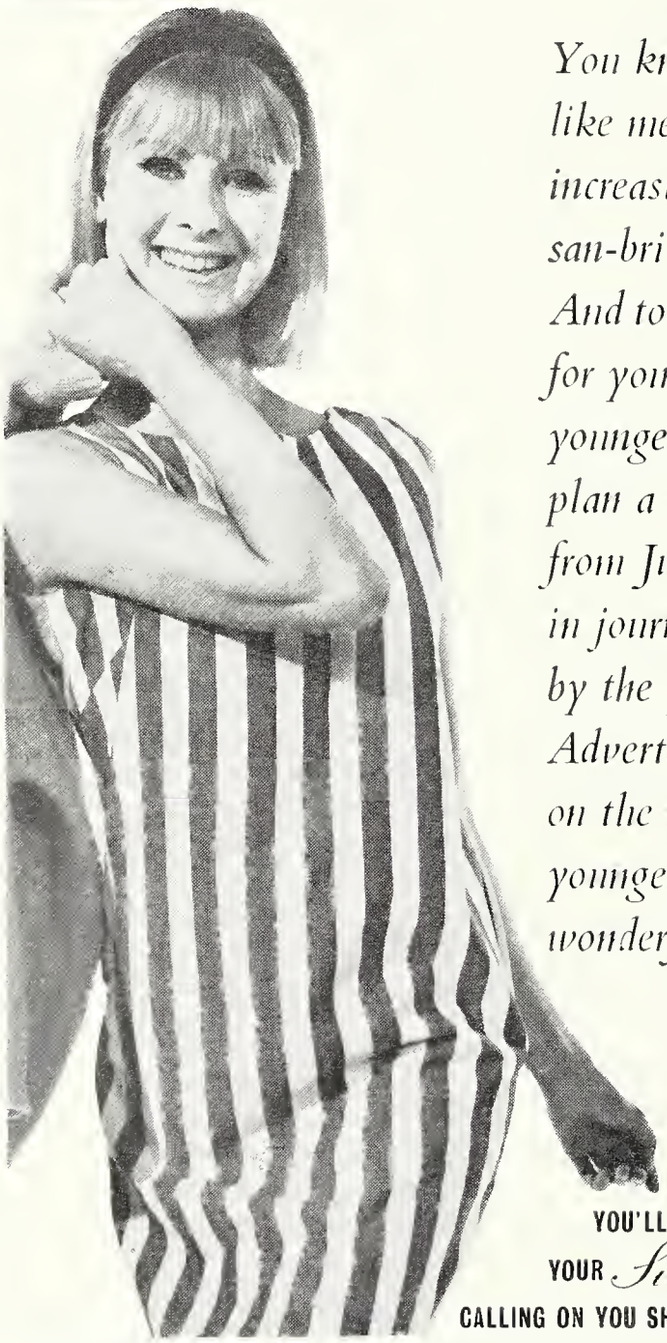
Sil-kini SAN-BRI
are the first ever briefs t
either pads or towels—pro
complete security, slimli
crecy, carefree activity, wor
comfort! Packaged for eye
and impulse sales! To retail



Sil-kini PADS
are soluble and feature a
deodorant for assured femi
The 10-pad pack reflects th
aging motif used on the
pack, so that your custome
make **regular** Sil-kini purc
from you! To retail at 1/6



Sil-kini TOWELS
of cotton wool, again featu
secret deodorant so impor
women, and the 10-towe
also reflects the packaging
of the other packs—to ma
Sil-kini range saleable to
one of your women custo
To retail at 2/-



You know that modern girls like me are turning in ever increasing numbers to the san-bri f type of protection. And to capture Sil-kini sales for you in this important younger market, SILCOT plan a national promotion from July to November in journals specially read by the younger girl. Advertisements like the one on the right will sell your younger customers on the wonderful new Sil-kini range!

YOU'LL FIND OUR 'DEALS' INTERESTING!
YOUR *Silcot* REPRESENTATIVE WILL BE CALLING ON YOU SHORTLY WITH FULL INFORMATION!

Macdonald & Son Ltd., Portland Mill, Ashton-Under-Lyne, Lancs. One Salisbury Square, Fleet Street, London E.C.4

profitable new range for you

for the modern girl



Sil-kini san-briefs

AND DEODORIZED TOWELS AND PADS

W—wonderful Sil-kini
ine Nylon Briefs to hold
r pads or towels with
blete security and comfort!
W—Sil-kini soluble pads
tton wool towels
ring a secret deodorant
ssured femininity!

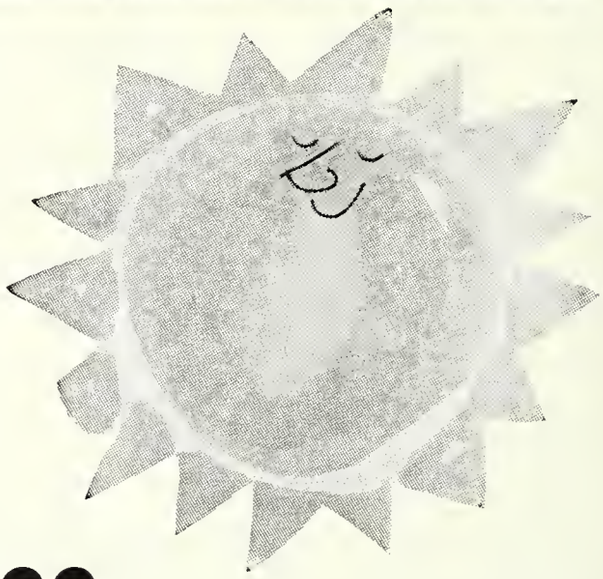
Step into Sil-kini Briefs and step out without a care in the world! New Sil-kini are the first-ever briefs to hold either pads or towels. They give you slimline secrecy—carefree activity—wonderful comfort! New Sil-kini Nylon Briefs teamed with new deodorized Sil-kini Towels give you confidence—real confidence! Next time, try them—and be sure!



Sil-kini Nylon Briefs Sil-kini 10-pad packs Sil-kini 10-towel packs

Silcot for feminine confidence Hip 34-36 Sizes 37-39 7/11 1/6 2/0





NEW QUICK-ACTION PACK AIDS HOLIDAY SLIMNESS

While everyone's thinking of holidays, and deciding to slim, *we* keep reminding them of **'SAXIN'.** Continuous top-pressure advertising in national and provincial newspapers and women's magazines puts over the **'SAXIN'** story. **'SAXIN'** in the new handy quick-action pack for pocket or handbag is first favourite for adding non-fattening sweetness to *any* diet.

Make sure you keep your new counter dispenser 'Salesmaker' on display and filled with the new **'SAXIN'** tubes.

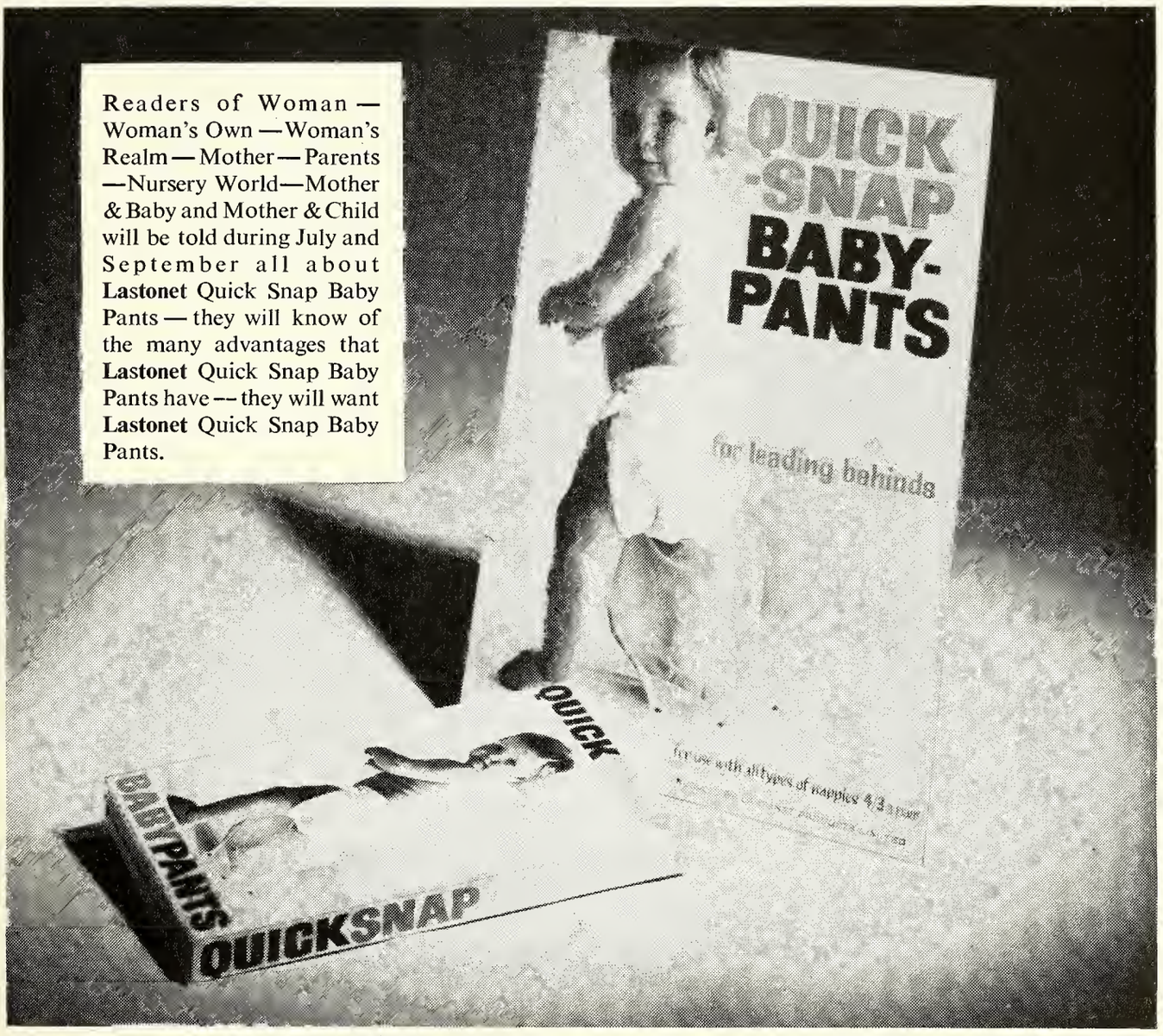


Order more 'SAXIN' for this peak selling period



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

BIGGEST EVER NATIONAL PROMOTION FOR **LASTONET** QUICK SNAP BABY PANTS STARTS IN JUNE



PLUS From June onwards, the **Lastonet** Sales Force will carry a new showcard for you, which will make sure that your customers know that you stock **Lastonet** Quick Snap Baby Pants and, what is more, the pack will be new too. Get your order in now at **35/-** per dozen nett **4/3** per pair retail.

LASTONET PRODUCTS LTD • REDRUTH • CORNWALL

NUCTA EGG AND LEMON SHAMPOO

IN THE EVER POPULAR

1/- TUB

SUFFICIENT FOR TWO OR THREE SHAMPOOS

6/8 per dozen (plus tax)

ALSO AVAILABLE IN THE FAMILIAR JARS TO SELL AT **2/8** AND IN THE **3/11** FAMILY SIZE TUBE.

From your wholesaler or direct



STEWART, GOODALL & DUNLOP LTD. 121a PRINCES STREET, EDINBURGH

In the battle against cross-infection

GRAHAMS disposable sterilised syringe

Precision-moulded barrel of DIAKON: selected for strength, transparency, and low solubility.

Colours of heat-engraved barrel calibration and plunger chosen for optimum contrast and legibility.

Syringes

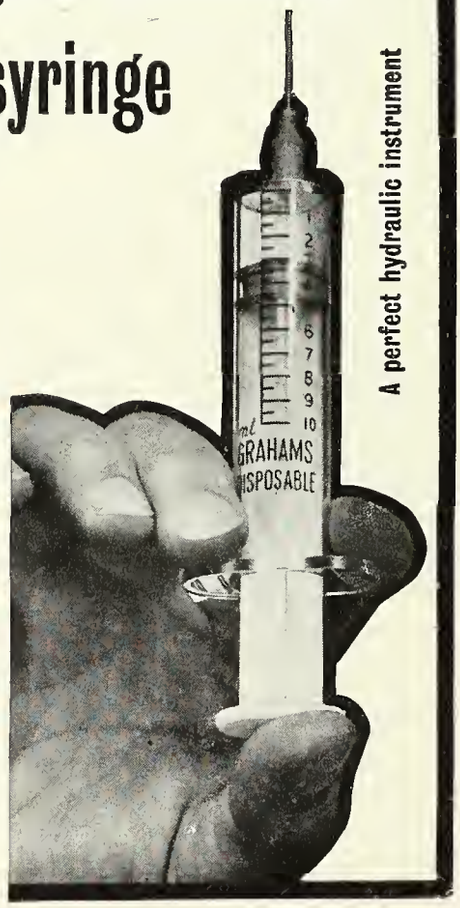
2, 5 and 10-ml sizes, available with or without Luer-fitting needles. Each syringe individually packed and sterilised. Cartons contain 100 units.

Needles

Fine-ground stainless steel needles, of standard sizes in greatest demand. 100 needles of one size in a carton, each needle in protective hood, sterilised and hermetically sealed in attachment to a foil strip.

GMP competitive prices make the expense and insecurity of autoclaving, boiling, and other laborious methods of sterilising not worth while. Available from our authorised distributors. A list of these distributors will be sent on request.

Always new . . . sterile . . . inexpensive



GMP

GRAHAMS MEDICAL PRODUCTS LTD.

St. Jude Works, Westmoor Street, London S.E.7
Tel: GREenwich 6221/4 Telegrams: GRAMED, LONDON

MORE FACTS ABOUT MUM

✻ MUM ROLLETTE REFILL OUTSELLS ITS CLOSEST COMPETITOR 6 TO 1



✻ THE SALES PATTERN IS NOW 2 ROLLETTE REFILLS TO EVERY 1 MUM ROLLETTE

THESE AREN'T CLAIMS. THEY'RE SOLID FACTS. MEANING? Meaning that the Mum Rollette refill business is a good one—and a *certain* one. When a product outsells its competition by six to one—you can't lose. You can only profit. So work out your profit ahead.

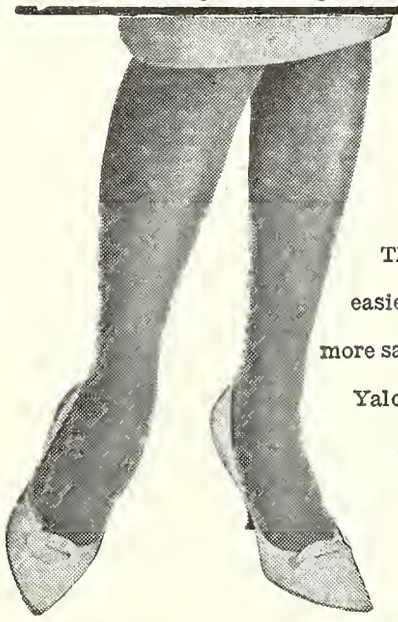
FOLLOW THE SALES PATTERN. For every *one* Mum Rollette you order—order *two* refills, and sell them. Soon, you'll have to re-order, because throughout the summer the Mum television campaign will be reaching 10 *million women*. Telling them that Mum Rollette and refill is the only roll-on deodorant offering *two* perfumes and *two* colours—Pink rose and Green fern. Stock up NOW.

ANOTHER FINE PRODUCT OF BRISTOL-MYERS

Bristol-Myers Co. Ltd., Stonefield Way, Victoria Road, South Ruislip, Middlesex

NO NEED FOR MEASURING AND FITTING

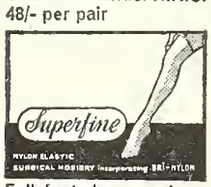
except in very abnormal cases



The Chemist's life is made easier, and his customers are more satisfied, when he supplies Yalcs Nylon Elastic Hosiery. Its true two-way stretch provides the versatility which permits a wide range of fittings and dispenses with nearly all special measurements. Leading Chemists require Surgical Hose that is second-to-none, plus superlative service. Yalcs is the complete answer.



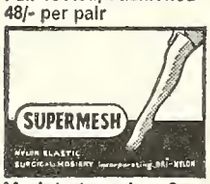
Full-footed or open-toe
Obtainable under N.H.S.
48/- per pair



Full-footed, seamed
Elegantly sheer
63/- per pair



Full-footed, Fashioned
48/- per pair



Mesh texture gives fine appearance on leg.
63/- per pair

Yalcs

nylon elastic hosiery

London Office:
6-10, Great Portland Street, London, W.1.
(Tel: LANgham 1071/2).

Distributors for Eire:
Rexall Drug Co., Davitt Road,
Dublin, 12. Tel.: Dublin 56628/9
Telegrams: Charnlabs, Dublin

LENTON PRODUCTS LTD . Grove Road, Lenton, Nottingham



BRAND NEW STEEL SHELVING

HEAVY GAUGE

Free delivery within 14 days. N. Scotland, Ireland, I.O.M. 10% extra

71" high × 34" wide, 12" deep with 6 shelves as illustrated. C.W.O. or C.O.D. **60/-**

Each shelf will hold over 3 cwt. Shelves adjustable every 2". Stove enamelled dark green. White enamel units 50% extra.

Height	Width	Depth	No. of Shelves	Price	Price each 3 or more	Extra Shelves
71"	34"	9"	6	58/-	56/-	7/-
71"	34"	12"	6	60/-	58/-	8/-
71"	34"	15"	6	69/-	67/-	9/6
71"	33½"	18"	6	81/-	79/-	11/6
85"	34"	12"	6	68/-	66/-	8/-
85"	42"	12"	6	86/-	84/-	11/-

HANDY DRAWER UNIT

BRAND NEW

42" high, 13" wide, 12" deep. 20 DRAWERS: 5" wide, 3" high, 11½" long. Stove enamelled dark green. Direct from manufacturers. Write now for list of other sizes.

£7.15.0

C.W.O. or C.O.D.



Buy direct from the manufacturers,
ROCHDALE METAL PRODUCTS
Dept. C.D., Shawclough Works, Waterfoot, Rossendale, Lancs. ROSsendale 2450
Contractors to H.M. Government and United Kingdom Atomic Energy Authority
EXPORTERS OF STEEL SHELVING

A NEW DISPLAY for VULFIX SHAVING BRUSHES

Each brush Guaranteed for 2 years

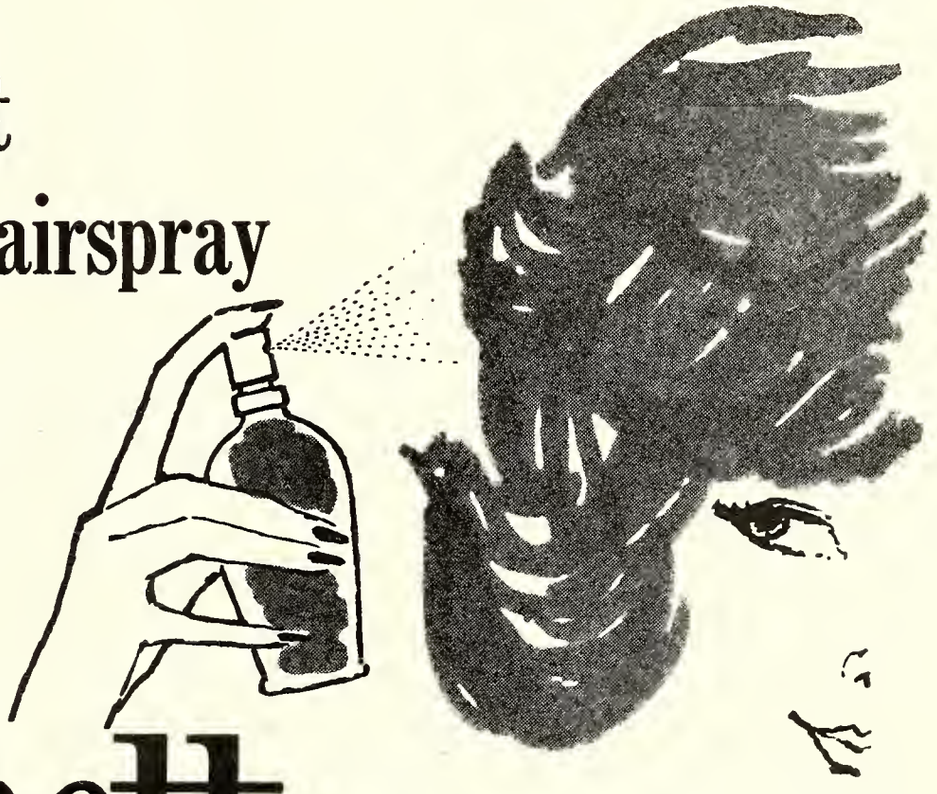


FREE with PARCEL No. 910 containing...

4 pcs. No. 20 PURE BRISTLE BRUSH
Each in window carton ..... RETAIL PRICE **4/11** EACH
4 pcs. No. 21 PURE BRISTLE BRUSH
Each in acetate tube ..... RETAIL PRICE **6/9** EACH
4 pcs. No. 22 PURE BRISTLE BRUSH
Each in acetate tube ..... RETAIL PRICE **8/6** EACH
W.S.P. **45/9** Plus P.T. RETURNS **80/8**

PROGRESS SHAVING BRUSH (VULFIX) LIMITED
MOTTRAM STREET, STOCKPORT, CHESHIRE. Tel. STO 2147
London Office : 143 New Bond St. London W.1 Tel. HYDe Park 3886-7

*The most popular hairspray in France is here!



* Elnett

with heavy national advertising to make sales for you

12¼ million women are now seeing Elnett advertising in

WOMAN · WOMAN'S OWN

FLAIR · HONEY · SHE

VANITY FAIR

MODERN WOMAN

WOMAN AND BEAUTY

Make sure you stock Elnett—profit from this concentrated advertising campaign



Available in eye-catching push button spray bottle
Retail Price 6/9 per bottle
Trade Price 46/4 per doz. *plus tax*

or in larger aerosol can
Retail Price 9/6 per can
Trade Price 65/- per doz. *plus tax*

- ***new*** when the hair is brushed all trace of hair spray goes
- ***new*** holds hair perfectly yet keeps it soft and tender to the touch
- ***new*** hair stays supple, resilient and responsive
- ***new*** it gives the hair a beautiful natural shine

From L'OREAL OF PARIS world's greatest makers of hair beauty products

Manufactured and Distributed by GOLDEN LIMITED Berkeley Square House Berkeley Square London W1 Mayfair 8240



ASTHMA · BRONCHITIS · EMPHYSEMA

RIDDOBRON

the INHALANT of CHOICE in a RIDDELL INHALER

with or without OXYGEN

SAFE · EFFICIENT · ECONOMICAL

Samples and Literature on Request

RIDDELL PRODUCTS LTD.,
RIDDELL HOUSE,
10-14 DUNBRIDGE STREET, E.2
SHOREDITCH 7254/6

LONDON, ENGLAND | **TORONTO, CANADA**

ESTABLISHED 1793

ATKINSON & BARKERS INFANTS' PRESERVATIVE

The Infants' Medicine
of 150 years' standing
For teething and digestive troubles

ROBERT BARKER & SON LTD
5 GLISSON ROAD, CAMBRIDGE
Tel: Cambridge 54049

Practical Pharmaceutical Chemistry
Quantitative Analysis
by A. H. BECKETT *and* J. B. STENLAKE
63*s net*
University of London · The Athlone Press

You can safely recommend

COLLYRE BLEU

THE ORIGINAL "LAITER" CLEAR - BLUE EYE DROPS

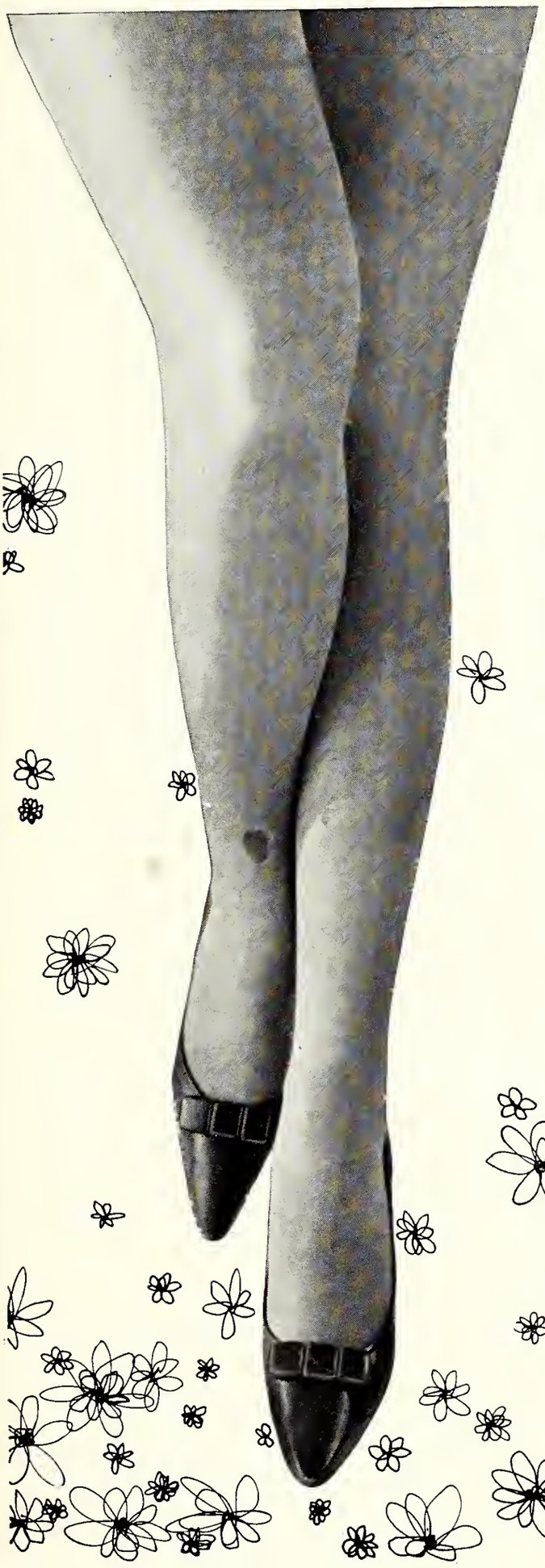
for mild eye affection and for contact lens users

Obtainable from your usual Wholesaler

DALES PHARMACEUTICALS LTD

POWER ROAD, CHISWICK, LONDON W.4
Phone: CHI 1441 Telex : 24596

STEETON, KEIGHLEY, YORKS
Phone: Steeton 3222 Telex: 51386



INTRODUCING the new BURSON®

Lightweight STOCKING

Designed specifically for your customers who need an elastic stocking that is both effective in use, and attractive to look at—Burson's new lightweight elastic stockings . . .

are indiscernible from regular stockings because of their fashion sheen; are seamless and come in an up-to-the-minute shade; are cool and comfortable to wear.

provide all round therapeutic or prophylactic support for pregnant or other women subject to varicose veins.

are issued in six stocking sizes—just like ordinary stockings—to facilitate fitting.

are prescribable under the N.H.S.

BURSON Lightweight

THE SUPPORT STOCKINGS THAT GIVE MORAL SUPPORT AS WELL

® Regd. Trade Mark

Sole Distributors: Fassett & Johnson Limited
86 Clerkenwell Road
London, E.C.1

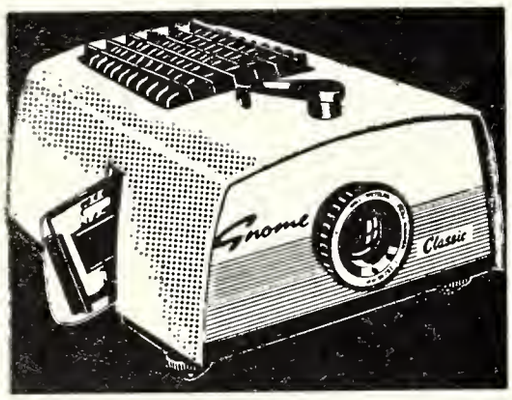
Richard Daniel & Son LTD

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 40671 (10 lines)
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 5161 (9 lines)
NORTH WINGFIELD ROAD, GRASSMOOR. Tel: Holmewood 481 (7 lines)



Britain's best selling projector

the superb

GNOME

CLASSIC

150 watt 35 mm PROJECTOR

Contemporary low line styling, with precision all-metal construction. Exclusive new type lever slide change. First quality optical condensers. Wilon f2,8/85mm hard coated lens. Amazing light output, with excellent definition.

PRICE £10 . 19 . 6. Lamp, extra 30/-

Also the GNOME CLASSIC 305
A 300/500 watt 35 mm Projector with powerful fan cooling and brilliant light output £15 15 0.

Write for details to :

GNOME PHOTOGRAPHIC PRODUCTS LIMITED
GNOME CORNER, CAERPHILLY ROAD, CARDIFF

GOING GREAT GUNS...

The Trafalgar campaign lasted just 4½ hours. The Victory V action lasts *all year round*. The big guns of advertising have set the ball rolling. The fickle English climate will do the rest. So carry on the good work, stockists. England Expects Victory V *every* month of the year.

Victory V

FRYER & CO · VICTORY FACTORIES · NELSON · LANCS.

Over a million men wear

LITESOME
ON TOP OF THE WORLD

LITESOME *Supporters*

MAN'S ESSENTIAL UNDERWEAR

OVER A MILLION MEN WEAR

LITESOME

There's a steady profitable demand for the world famous 'Litesome' Supporter—well backed by consumer advertising and repeat-purchased year by year by men of all ages in all walks of life. Models to suit all purposes and waist sizes—all attractively packaged and priced including the "Standard," "Mayfair" and "Royale" models. Send for full details of prices, terms, dealer aids (Showcards, Leaflet Dispensers, Folders etc.,) to FASSETT & JOHNSON LTD., 86 Clerkenwell Road, LONDON, E.C.1. Telephone: Clerkenwell 2336 Distributors to the Chemist Trade or direct to Keighley.

SOLE MANUFACTURERS · FRED HURTLEY & SON LTD · KEIGHLEY · YORKSHIRE

Stock up with . . .

Synfoam SUPER

SYNFOAM
SUPER
SPONGE

HONEYCOMB · ALL PURPOSE
FULLY SYNTHETIC

STANDARD SIZE Retail Price 2/10
LARGE SIZE Retail Price 3/9
GIANT SIZE Retail Price 6/0
USUAL DISCOUNTS

Each Sponge in a 3-coloured transparent sleeve. Each doz. in carton. 12 doz. in cardboard box.

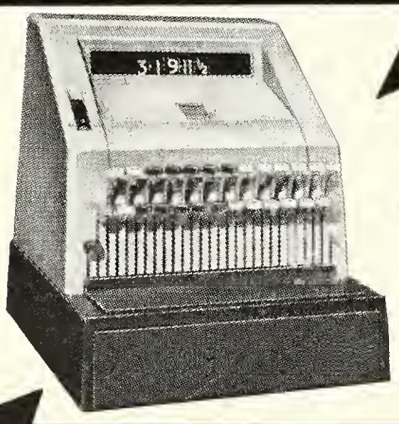
Obtainable from YOUR USUAL WHOLESALER or contact :—

FLETCHER & FARLOW LTD.
Finsbury Court, Finsbury Pavement,
London, E.C.2 • *Tel : MONarch 6810*

"SYNFOAM SUPER" SELLS ON SIGHT!

THIS IMPOSING NEW

National
CASH REGISTER



only £81

THE *National* D100

All British made ● 2-Way *natural* indication ● £3.19.11½ Keyboard ● £99,999.19.11½ Automatic Adding Capacity ● Printed Total ● High-Capacity Drawer ● Lock-Controlled Security ● Modern styling for modern shops

THE NATIONAL CASH REGISTER COMPANY LTD
206-216 MARYLEBONE ROAD · LONDON NW1



L'OREAL BLEACH advertising tells nearly 12 million women–

'the loveliest blondes are L'OREAL bleached'

Nearly all young would-be-blondes read magazines like
WOMAN, WOMAN'S OWN,
WOMAN'S MIRROR and HONEY.

This advertising will make them buy and keep them buying. Make sure they buy in *your* shop—the gay new pack is designed to get maximum attention on your shelves and counters. Display this unit holding 6 cartons and also the attractive full colour showcard.

ORDER NOW
and be sure of
big sales in 1963



NEW PRICES
Retail Price
2/9 per carton
Trade Price
18/9 per dozen
cartons, plus tax

GOLDEN LIMITED
Berkeley Square House, Berkeley Square, London W1 Mayfair 8240
Republic of Ireland enquiries to Lilmar Pharmaceuticals Limited, Santry, Dublin

S&S ★ ★ ★ ★ ★

Specialists in High-Class Label Reproduction for Chemists

SUTTLEY & SILVERLOCK
ANDOVER, HANTS
TEL. 2234

KESWICK'S
well-tried remedies

	Retail Chemists' Prices per doz.	Plus P.T. per doz.
CHARCO-LAX Tablets for CONSTIPATION		
Full Strength (Black-coated) for Stubborn Cases	15/6	3/11
Half Strength (White-coated)..	31/6	7/11
for Milder Cases	62/6	15/8
Selling Prices: 2/6, 5/-, 9/3		
Pure Vegetable CHARCOAL Tablets	15/6	3/10
for Digestive Disorders, Biliousness, Flatulency, etc.	31/6	7/11
Selling Prices: 2/6, 5/-, 9/3	62/6	15/8
'JUVITE' Tablets		
The Keswick Tonic Tablets especially helpful to the 'Not-quite-so-young'	31/6	7/11
Selling Prices: 5/-, 9/3	62/6	15/8

Orders £5 and over Carriage Paid.

KESWICK & CO.
WIGTON, Cumberland Tel: Wigton 2163

LOOK AT IT THIS WAY...

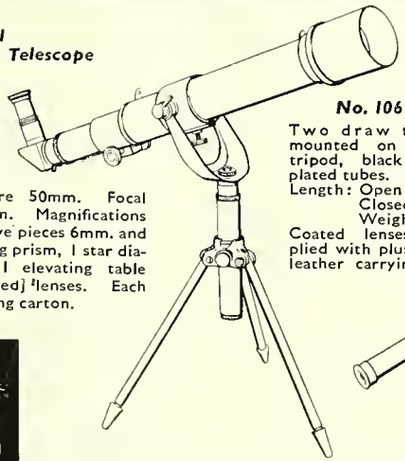


GREENKAT
JAPANESE HIGH QUALITY OPTICS

. . you can't get better than the best. Greenkat offer you just this . . . the finest optical instruments made today. But when it comes to price there is no comparison. Nowhere else could you find this superb quality at these popular prices. A glance at our price list, sent by return, will convince you that Greenkat means easier sales and bigger profits.

Telescope illustrated No. OKT115

Astronomical or Terrestial Telescope



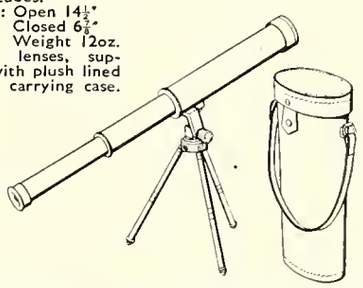
Clear aperture 50mm. Focal Length 500mm. Magnifications 84x 23x. 2 eye pieces 6mm. and 22mm. Erecting prism, 1 star diagonal prism, 1 elevating table tripod. Coated lenses. Each packed in strong carton.

No. 106 30x 30

Two draw tubes, mounted on plated tripod, black body, plated tubes.
Length: Open 14½"
Closed 6⅝"
Weight 12oz.
Coated lenses, supplied with plush lined leather carrying case.

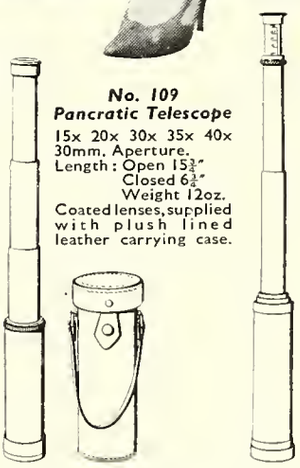
No. 104 25x 30

3 draw tubes, white body, plated tubes.
Length: Open 14½"
Closed 5½"
Weight 6oz.
Coated lenses, supplied with plush lined leather carrying case.



No. 109 Pancratic Telescope

15x 20x 30x 35x 40x 30mm. Aperture.
Length: Open 15¾"
Closed 6¼"
Weight 12oz.
Coated lenses, supplied with plush lined leather carrying case.



Send for Price List Trade Terms and descriptive brochure

GREENHILL & ELLIS (EASTERN) **LIMITED**
LING HOUSE, DOMINION STREET, LONDON E.C.2. **Telephone: MONarch 0476**

The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

TELEPHONE CENTRAL 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

APPOINTMENTS — 24/- per ½" s.c. minimum and pro rata. AGENTS — AUCTION SALES — BUSINESSES FOR SALE and WANTED — CLEARANCES and WANTS — CONTRACTS — MISCELLANEOUS — PATENTS — PARTNERSHIPS — PREMISES — PUBLIC and LEGAL NOTICES — SITUATIONS VACANT. Run-on — 4/- per line (minimum 20/-). Semi-display — 24/- per ½" s.c. minimum. Displayed with border rule, larger type faces and blocks — 60/- per s.c.i minimum. Reduced rates for one-third, one-half and full pages on application. SITUATIONS WANTED — 6/- per 18 words minimum, then 4d. per word. Use of Box No. — 2/-. Advertisements received by 4 p.m. Tuesday published same week.

OVERSEAS VISITORS

CALIFORNIA CHEMICALS IMPORTER will visit England and continent in August-September. Wishes to meet people with mutual interests. Write: H. M. Morley, 3875 Riviera Dr., San Diego 9, California. C 5295

PREMISES

BASILDON NEW TOWN, ESSEX

To Let:—New Lock-up Shop within Neighbourhood Centre Parade of 9 Shops, to be conducted as a Pharmacy, serving the Neighbourhood population of 9,000. Living accommodation is available. Applications are invited for a 14-year full repairing lease of this unit, and further details and plan may be obtained by writing to:—

The Estates Officer,
Basildon Development Corporation,
Gifford House,
Basildon, Essex

C 8244

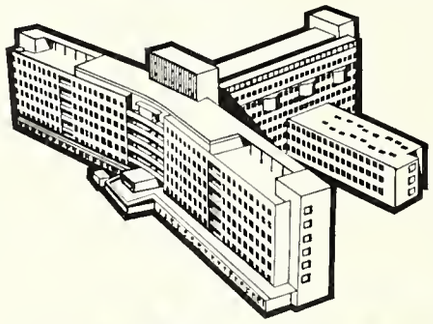
BUSINESSES FOR DISPOSAL

DRUG STORE, East Coast resort. Attractive lock-up shop in excellent main road position. Opportunity and opening for pharmacist. Large room at rear suitable dispensary. Health forces sale. Box C 5304.

FREEHOLD DRUG STORE, Hornchurch, Essex. Good living accommodation, garage, etc. Main road, good supporting parade. Close schools, doctors, dentist. Excellent proposition chemist. Property three and a half years old. Turnover £6,000 increasing. Price £8,000. S.A.V. Moving to coast, due to ill health. Box C 5307.

OLD-ESTABLISHED pharmaceutical business in East London, due to owner retiring, with freehold premises redesigned modern layout, excellent accommodation. Trade approx. £7,000 p.a. Price £5,000, s.a.v. Apply, A. A. Chambers & Co., 385 Green Street, Upton Park, London, E.13. Phone: GRAngewood 6336. C 8310

APPOINTMENTS



NEW WELWYN AND HATFIELD HOSPITAL

SENIOR PHARMACIST

is required at this new district general hospital of 315 beds which will open in June. The Pharmaceutical department is modern and well-equipped, providing excellent working facilities. The person appointed will be expected to act as deputy to the Chief Pharmacist with responsibility for the internal organisation of the department. Salary scale £810 to £1,060 per annum and Whitley Council conditions of service. It may be possible to assist the successful applicant with accommodation in certain circumstances.

Applications with the names of two referees to the Hospital Secretary, "Kennelwood," Kennelwood Lane, Hatfield, Herts, as soon as possible.

C 8299

WIMBLEDON, S.W.19. For sale by order of the executors the leasehold interest, goodwill and stock of a small but flourishing dispensing chemist situated in a busy suburban thoroughfare surrounded by shops of a similar class and character. Price £1,700. Further details from Ian Burgess & Co., 176 Hook Road, Surbiton, tel.: Lower Hook 1141. C 5308

BUSINESSES WANTED

MIDLANDS AREA. Drug stores or premises wanted. E. T. Perks, 16 New Street, Dudley, Worcestershire. Dudley 2368. C 5233

NORTHERN IRELAND. London advertiser requires established business in N. Ireland. Please furnish particulars regarding property, turnover, etc. All replies treated with the strictest confidence. Box C 5300.

WELL-KNOWN company with toiletry and allied interests wishes to acquire a company manufacturing brushes for consumer and/or household use. Sales organisation and established outlets essential. Minimum turnover £100,000. All enquiries dealt with in confidence. Write Box C 8278.

APPOINTMENTS

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

for holiday relief duty in the hospitals of the Group, 10th June to 28th Sept. inclusive. Salary 19 gns. p.w. Apply to Chief Pharmacist, Bethnal Green Hospital, Cambridge Heath Road, London, E.2. C 634

DULWICH HOSPITAL, EAST DULWICH GROVE, LONDON, S.E.22

Senior Pharmacist

Applications invited for the above post. Salary scale £855—£1,115. Part-time considered. For further details or applications to Chief Pharmacist. C 8295

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

in charge at Mildmay Mission Hospital for holiday relief duty: 17th to 22nd June, 1963. Salary £23 2s. per week. Apply to Chief Pharmacist, Bethnal Green Hospital, Cambridge Heath Road, London, E.2. C 633

Appointments—Continued

NETHERNE HOSPITAL, COULSDON, SURREY
Pharmacist
required. Salary £725 x £30 (2) x £35 (3) x £40 (2)—£970, plus London Weighting allowance.
Conditions of service as agreed by the Pharmacist Court Whitley Council.
Temporary accommodation for single lady. Hospital within easy travelling distance of London and the coast. Applications in writing, with full particulars, together with names of two referees to the Physician Superintendent. C 8269

GROVE PARK HOSPITAL, LEE, S.E.12
Chief Pharmacist
Category II, £940 to £1,260 plus London Weighting allowance. Applications naming two referees to Group Secretary, Lewisham Hospital, High Street, S.E.13. C 632

LEAVESDEN HOSPITAL, ABBOTS LANGLEY, near WATFORD, HERTS
Pharmacist
(part-time) required at Leavesden Hospital. The hospital is within easy reach of London by Bakerloo line or Green Line Coach. Applicants are invited to view the Department by arrangement with the Group Pharmacist ('phone Garston 2222, Ext. 30) prior to interview. Applications stating age and experience, together with the names of two referees to be sent to the Group Secretary, Leavesden Hospital, Abbots Langley, near Watford, Herts. C 8288

LEWISHAM HOSPITAL, HIGH STREET, S.E.13
Senior Pharmacist
required. Applications stating age, qualifications and experience, and names of two referees to Chief Pharmacist. C 636

MOORFIELDS EYE HOSPITAL
Locum Dispensing Assistant
Locum Dispensing Assistant required immediately.
Apply, in writing, to Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 8305

MOORFIELDS EYE HOSPITAL
Dispensing Assistant
Applications are invited for the post of Dispensing Assistant, female, Whitley Council salary and conditions of service.
Apply in writing, giving names of referees, to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 8304

NEASDEN HOSPITAL, BRENTFIELD ROAD, LONDON, N.W.10 (203 beds)
Chief Pharmacist—Category II
required. Modern department. No out-patients. Applications to Group Secretary, Central Middlesex Group H.M.C., Acton Lane, London, N.W.10. C 8284

NETHERNE HOSPITAL, COULSDON, SURREY
Locum Pharmacist
required, salary £19 19s. per week.
Conditions of service as agreed by the Pharmacist Court Whitley Council.
Temporary accommodation for single lady.
Applications in writing with full particulars, together with names of two referees to the Physician Superintendent. C 8270

LEWISHAM HOSPITAL, HIGH STREET, S.E.13
Locum Pharmacist
required, £19 19s. a week. Apply Group Secretary. C 637

NEASDEN HOSPITAL, BRENTFIELD ROAD, LONDON, N.W.10 (203 beds)
Part-time Pharmacist
required. Hours by arrangement, £2 0s. 7d. per session. Apply to Physician Superintendent. C 8283

SHOTLEY BRIDGE GENERAL HOSPITAL, CONSETT, Co. DURHAM
Applications are invited for the post of **Locum Pharmacist**
Remuneration will be at the rate of £19 19s. per week. Residential accommodation available, if required.
Applications, stating age, education, experience and naming two referees, to the Hospital Secretary. C 8311

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OVERSEAS

CANADA

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APPLY — D. W. Sherin, Personnel Officer, St. Thomas-Elgin General Hospital, St. Thomas, Ontario. C 5283

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P. WILSON,
33 FARNCOMBE ST., GODALMING
C 5305

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The Personnel Manager,
Evans Medical Ltd.,
Speke, Liverpool, 24

C 8307

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C 8259

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C 8302

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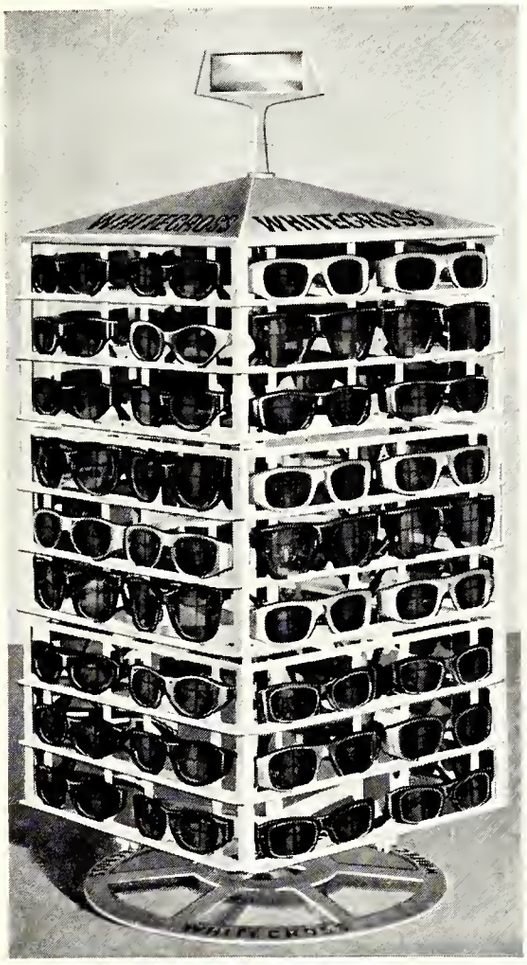
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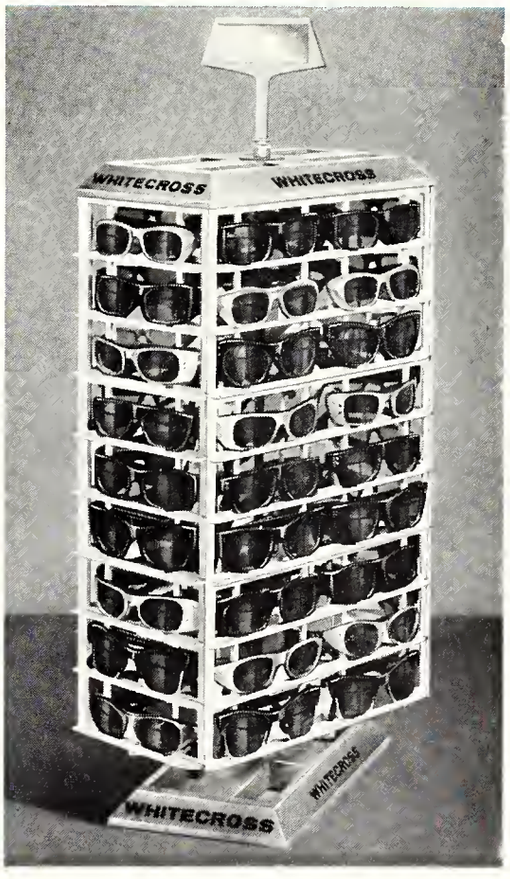
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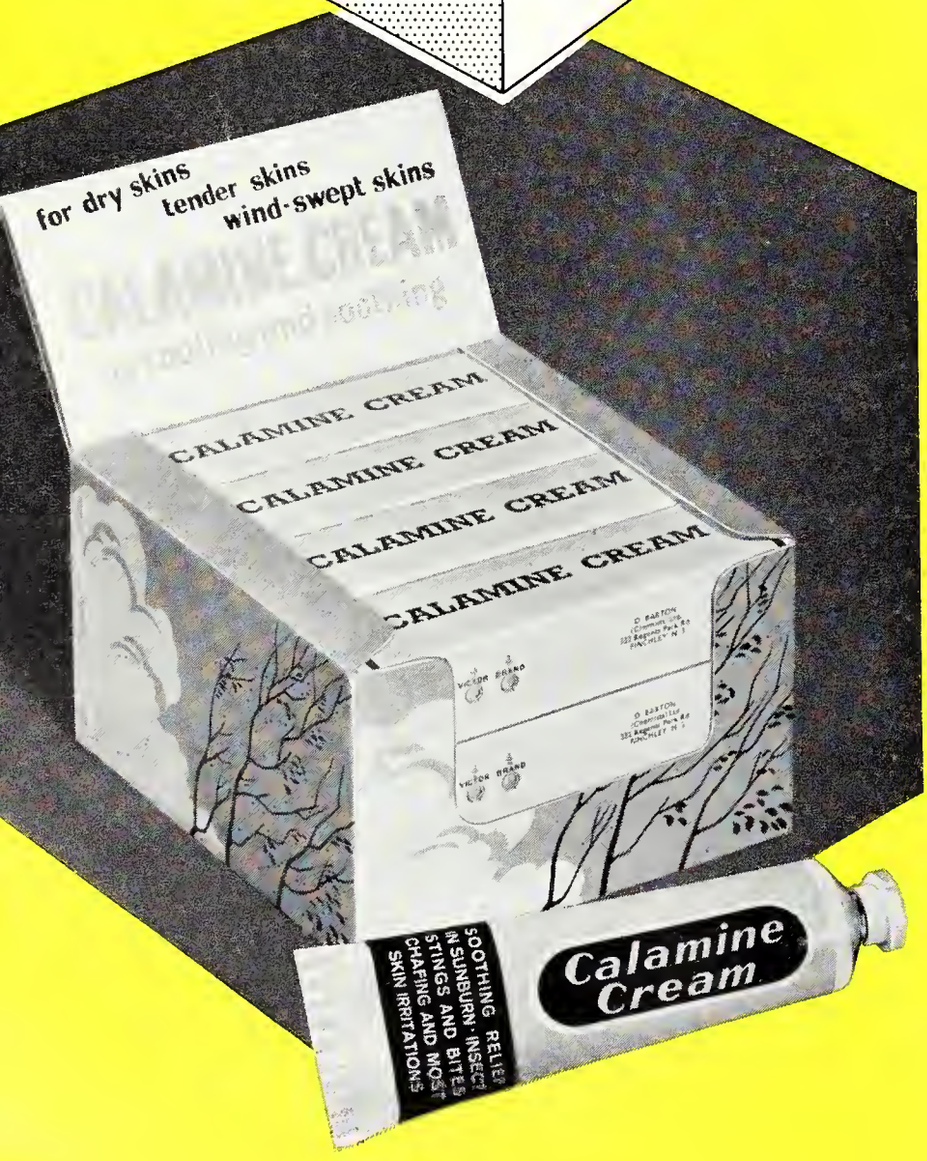
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